QM 4.1 – General Requirements

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Quality Manual	4 – Quality Management System		
Section 4.1	Section Revision: C	Revision Date: 9/16/2014	
4.1 - General Re	quirements		
Approved By: Todo	Approved By: Todd Gifford Date: 7/12/2010		
GENERAL POLICY			
		tion of the Quality Manual conforms ement 4.1 General Requirements.	
Dee Electronics Inc. is committed to determine, establish, document, implement and maintain a quality management system, and continually improve its effectiveness, in conformance with requirements of ISO9001:2008 International Standard.			
		·	

- 1. Quality system processes
- 1.1 Processes needed for the quality management system are determined in this quality manual and in associated operational procedures and work

their sequence and interaction, and instructs on how to implement and apply them throughout the organization.
anem am augmate the organization.
1.2 Quality system documentation also defines criteria and methods needed to ensure that the operation and control of quality system processes are effective. This usually includes assignment of responsibilities and allocation of resources for the process, instructions on how to carry out (or operate) the process, and definition of methods for monitoring and/or measuring the effectiveness of the process.
excel spreadsheet that is contently monitored.
1.3 Operational Procedure QOP-42-01, Quality System Documentation, explains in more detail how quality system processes are defined and documented.
Augusty downers are Kept on the

2. Resources and information

3.1 The and/or rand ider Brown (M) 100	oring and measureme	ent		
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and/or rand ider Brend (M) Co				
	performance of qualit neasured (where app tify opportunities for	licable). This i	s to ensure th	ematically monito neir effectiveness
	z-if you iden	itify a g	cality nu	ed, room to
	a would are	suggestion	in an	audit
the proc product. usually r	performance of produ g process parameter ess; and through the The performance of p nonitored through int ty system is monitore	rs and/or prod program of in processes requernal quality a	uct characteri spections and uired for quali audits. The ov	stics resulting fro tests applied to t ty management is erall performance
Brendi	r – ADBRADÁIS O CH	BALL CROSSOCI	CO STARIO	bookshelie
How	C CIPCOLOR VI	Lor Con A -	to ensur	re customer

3.3 Monitoring and measuring activities are defined in Sections 8.1 and 8.2 of this quality manual, and in the corresponding operational procedures.
4. Conformance and continual improvement
4.1 Quality management system processes are regularly reviewed by the top management to identify any possible failures or breakdowns, as well as opportunities for improvement. Actions necessary to address actual or potential problems and to improve the quality system are implemented through corrective and preventive actions and management improvement projects. Sections 5.6 and 8.5 of this quality manual and the corresponding operational procedures define how management reviews and corrective/preventive actions are used to ensure conformance and improvement.
Brenda-How often to you meet regarding quality to identify any quality needs
Management meets ince a 14 sparding the
5. Outsourced processes
5.1 Dee Electronics currently does outsourcing for a select group of items / situations.

5.2 When processes that affect product conformity are outsourced

include, as appropriate: evaluation and pre-qualification of suppliers;

(performed by an external party), special controls are implemented to ensure that these processes meet specified requirements. Such controls may

assessment of supplier realization processes and quality system; monitoring of supplier quality performance; requirements for inspection, testing or other records demonstrating product conformity; or containment and verification of the supplied product. Section 7.4 of this quality manual and the corresponding operational procedures define such purchasing control system.

Brenda- Are any products or services out Sourced? 1750 now are Arrey checked for conformity? N/A none on out out sourced

ASSOCIATED DOCUMENTS

Quality Manual: All sections

Operational Procedure QOP-42-01: Quality System Documentation

QM 4.2 - Documentation and Records

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Quality Manual	4 – Quality Management System		
Section 4.2	Section Revision: A	Revision Date: 7/12/2010	
4.2 – Documentat	ion and Records		
Approved By: Todd Gifford		Date: 7/12/2010	

GENERAL POLICY

The quality system described in this section of the Quality Manual conforms to the requirements of the standard: Element 4.2 Documentation Requirements.

Scope of the quality system documentation is defined. Establishment and revision of documents, and their distribution, are controlled. New documents and revisions are reviewed and approved prior to issue; and are identified with respect to their revision level. Appropriate documents are available at locations where they are used. Obsolete documents are removed from points of use. Documents of external origin are identified and their distribution is controlled.

Quality records are identified and indexed to facilitate their retrieval, and are stored in a suitable environment to minimize deterioration. Quality records are retained for a period of time at least equivalent to the lifetime of the product.

- 1. Scope
- 1.1 Dee Electronics, Inc. quality system documentation comprises the following types of documents and records:

Quality manual (including a documented quality policy); Documented statements of quality objectives; Operational procedures; Work instructions; Product realization and control plans.

The documentation structure that is used in this quality system consists of four tiers:

- The first tier of the quality system documentation structure is the quality manual (including documented Quality Policy), which covers all requirements of the standard, makes reference to quality system procedures, outlines the documentation structure and illustrates Dee Electronics' positive commitment to fulfill these requirements.
- The second tier consists of documented procedures, which are specified methods for managing activities. These procedures are consistent with the requirements of the standard and DEE's quality policy, and are to be implemented effectively.
- The third tier is work instructions, which are highly specific ways to perform activities.
- The fourth tier consists of records, forms, tags and other documentation. A single document may include the requirements for one or more procedures. A requirement for a documented procedure may be covered by more than one document.

Purpose, scope, and responsibility for controlling various types of documents are defined in Operational Procedure QOP-42-01, Quality System Documentation.

2. Quality Manual

2.1 The top level document defining the overall quality management system is the Quality Manual. It includes:

The scope of the quality system, including details of and justification for any exclusions (refer to Section 0.3);

Description of quality system processes, their sequence, and interrelation; and

•.	
3. Do	cument control
contro standa deterr	Dee Electronics has established and maintains documented procedures to pl all documents and data that relate to requirements of the ISO 9001:2008 and, including, to the extent applicable, documents of external origin (those mined by the organization to be necessary for the planning and operation of pality management system).
Bre	nda-typere are the quality manuals
OR	SOS COODEO COORD -
Taty	ant-Du Electronics TSO manya - also
\pat	the objective located out side the
review electro	ocument and Data Approval and Issue. The documents and data are yed and approved for adequacy by authorized personnel prior to use. An onic document control procedure identifying the current revision status of nents is readily available to prevent the use of invalid and/or obsolete nents.
Bro	nda- who is able to edit any TSO
HON	sten are they opdatel?

3.3 The authorized functions and the rules governing the issue of documents are defined in procedures QOP-42-01, Quality System Documentation, and QOP-42-02, Control of Documents. All documents are reviewed and approved prior to issue.
Brenda-Herr pan you tell it a downent in the manual are updated? Periston date on document
Ang you notified if any are?
3.4 The pertinent issues of appropriate documents are available electronically at all locations where operations essential to the effective functioning of the quality system are performed. Invalid and/or obsolete documents are promptly removed from electronic access, or otherwise assured against unintended use. Any obsolete documents retained for legal and/or knowledge purposes are suitably identified. Branda while are the against unintended use. Any obsolete documents retained for legal and/or knowledge purposes are suitably identified.
3.5 Changes to documents and data are reviewed and approved by the same functions that performed the original review and approval, unless specifically designated otherwise. The designated functions or organizations have access to pertinent background information upon which to base their review and approval. Where practicable, the nature of the change is identified in the document or the appropriate attachments.

4	. Control of quality records
d re	.1 Dee Electronics has established and maintains documented procedures to efine the controls needed for the identification, storage, protection, retrieval, etention and disposition of records. Records maintained are legible, identifial nd retrievable.
ha	.2 Quality records are established and maintained to provide evidence that: Tas been conformance to specified requirements, and the quality system is perated in accordance with documented procedures and that it is effective.
L	Brenda-Are any updates loged anywhere
	100

4.3. All quality records are legible, and are stored and retained in such a way that they are readily retrievable in facilities that provide a suitable environment to prevent damage or deterioration and to prevent loss. Retention times of quality records have been established and recorded. Where agreed contractually, quality records are made available for evaluation by the customer or the customer's representative for an agreed period.

Brenda-Do you have	a hard copy of
10-4 is not	

ASSOCIATED DOCUMENTS

Operational Procedure QOP-42-01: Quality System Documentation

Operational Procedure QOP-42-02: Control of Documents

Operational Procedure QOP-42-03: Control of Quality Records

QOP-42-01 – Quality System Documentation

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QMS Operational Procedure	QOP-42-01	
	Section Revision:B	Revision Date:
Section 4.2		8/14/2014
Quality System Documentatio	n	
Approved By: Todd Gifford		Date: 7/12/2010

PURPOSE

The purpose of this procedure is to:

- a) Identify documents defining the quality management system, production processes, and products: and
- b) Assign responsibilities for establishing and maintaining the documentation.

APPLICATION

Scope: This process pertains to all documents utilized in the Dee Electronics quality system.

PROCEDURE

1. General

1.1 The scope and extent of quality system documentation is determined on the basis of the complexity and interaction of processes, elements, and activities; and

on competence of personnel. The documentation is sufficient to ensure the effective planning, operation and control of the quality system, processes, and products.

Brenda-thow is the quality manual shared with comployees & print out specific areas they peel to troop, it is documented in the traingled
Sup-order entry-do you know whore the quality
Terry-Recievery Packing-Do you Know Where the manual is lacated & - Yes near the brea karea
2. Quality manual and Up front

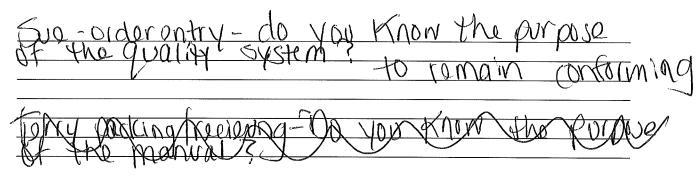
2.1 The purpose of the quality manual is to:

State the company's principal quality policy as well as specific policies related to particular elements of the quality system;

Define and describe quality system processes, their sequence, and interrelation;

Define responsibility and authority of management personnel involved in the operation of the quality system; and

Outline general procedures for various activities comprising the quality system, and reference applicable Operational Procedures.



2.2 The President formulates the principal quality policy and approves the quality manual. The President is responsible for maintaining the manual. The quality manual is authorized by the President.

3. Operational procedures	
3.1 The purpose of operational procedur responsibilities and authorities, and provious comprising the quality system. Operation and how for each activity; identify interfashould be informed and how the results	ide instructions for carrying out activities nal procedures explain the what, when, who aces for the activity; and instruct who
Terry Packing reiving- Docates comunicated?	Howard procedure located in retieving
3.2 Operational procedures are code num <i>Operational Procedure</i> , SS is the section procedure pertains, and NN is the consecsection.	

	4. Work instructions
	4.1 The purpose of work instructions is to guide personnel in performing specific tasks, such as carrying out and controlling processes (process operator instructions), handling products, conducting tests or inspections, and so forth.
	Do you the name work instructions?
	thon are you comunicated to It there is an
19	rypading are work instructions for recioning and
	00 for them? There are home. 4.2 Work instructions are documented electronically, generally, on the forms in which the personnel performing the task are using.
. 1	Sul-invoicing-where are in voring wird
7	Roundy-Work instruction for each boild are cheeted work instructions for build
STO STORY	5. Customer engineering documents
	5.1 This category includes customer drawings, specifications and other documents defining the customer's requirements. These can be product documentation, testing procedures, acceptance criteria, and so forth.

6.3 Control plans identify process control scope and methods, define the inspection/testing points and methods, and reference specific process control and inspection instructions, and acceptance criteria.
Brenda-where are the control plans Kept?
christed one to review
6.4 These types of documents are usually issued by the Facility Ops Manager or Quality Assurance.

QOP-42-02 - Control of Documents

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QMS Operational	QOP-42-02	
Procedure		
Section 4.2	Section Revision:	Revision Date:
Section 4.2	B	8/14/2014
Control of Documents		
Approved By: Todd Gifford		Date: 7/12/2010

General

Purpose: The intent of this procedure is to describe the process at Dee Electronics for Document and Data Control, Section 4.2.3 of ISO 9001:2008.

Scope: This process pertains to all documents utilized in the Dee Electronics quality system.

Definitions

- 1. QM- Quality Manual.
- 2. QOP- Quality Operations Procedure.
- 3. QF- Quality Form.

Responsibilities

1. The overall R&A for activities relating to this element of the standard have been assigned to the President and the MR. Team Members are charged with the responsibility to implement the procedure as written, and have been granted appropriate freedom and authority to do so.

Procedure

- 1. Dee Electronics makes every effort to create a paperless environment for quality documentation. Controls are in place to ensure accessibility and security.
- 2. The quality system documentation at Dee Electronics consists of four levels, as described in QM 4.2 of the Quality Manual.
- 3. Level I through Level IV documentation, and a corresponding Master List, is located on our Intranet website on our Network, and is accessible by all employees.
- 4. Documentation on the Intranet website is maintained in a read-only format. Only the President **and Quality Manager are** permitted to alter the format or content of our Quality System documentation.
- 5. Requests for changes to quality documents are submitted to the MR or President by way of an electronic Document Change Request, Form QF-42-02-01, identifying the originator of the change, the approval of the change by the original approval authority, and background information explaining the reason(s) for the change. The Document Change Request is associated electronically with the revised document so that the change history is always available.
- 6. Quality document change requests are reviewed and approved by the the President **or Quality Manager**, verbally or via electronic mail for entry into controlled documents.
- 7. Quality Manual and Procedure last changes will be highlighted in bold type.
- 8. Dee Electronics conforms to the PRO-3 Registration Mark Procedure concerning the use of the Registration Mark and the Accreditation Marks.
- 9. Dee Electronics can control external documents if it has need to do so.

Branda-Albertanogopo Are qua	etity documents
are documents on the intra	not editable?

QOP-42-03 - Control of Records

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QMS Operational	QOP-42-03	
Procedure		
Section 4.2	Section Revision:	Revision Date:
Jection 4.2	B	8/14/2014
Control of Records	•	
Approved By: Todd Gifford		Date: 7/12/2010
Conoral		-1.

General

Purpose: The intent of this procedure is to describe the process at Dee Electronics for the

Control of Quality Records, Section 4.24 of ISO 9001:2008.

1.2 Scope: This procedure pertains to all company and vendor-related quality records that are utilized in the Dee Electronics quality system documentation plan and are required by ISO 9001:2008.

Brenda-Where are	ast audits t	Spozuor
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	101CCh	

Definitions: none

Responsibilities The overall R&A for this element of the standard have been assigned to the President and the MR. Team Members are charged with the responsibility to implement the procedure as written, and have been granted appropriate freedom and authority to do so.
Procedure
 As Retention R&A for specific categories of quality records, the President and the MR ensure that identified electronic quality records are retained and stored using methods that guarantee their preservation, legibility and accessibility to authorized persons.
 The President or MR makes hard copy quality records available to customers when contractually agreed. The President and Quality Manager maintain, revises, and safeguards
required electronic quality records, including off-site storage of backed-up records. Backups are done nightly, which is a snapshot of every virtual server. 10 restore points (10 days worth of backup) is kept on the server. A monthly backup is created the first Saturday of every
month to an external hard drive. This hard drive is stored in a fire proof safe when not full in the IT Director's office, and when it is full, it is given to the President to be retained in his home.
hie-

QM 5.2 - Customer Focus

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Quality Manual	5 – Management Responsibility	
Section 5.2	Section Revision: A	Revision Date: 7/12/2010
5.2 – Customer Fo	ocus	
Approved By: Todd Gifford		Date: 7/12/2010

GENERAL POLICY

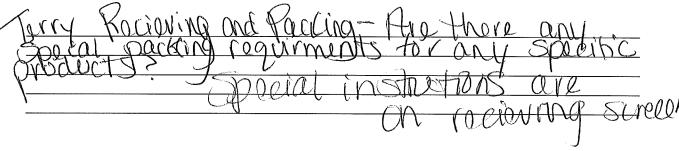
The principal objective of the quality management system is to focus our organization on the customer, and in particular, on customer satisfaction. The key to achieving high customer satisfaction is a good understanding of customer requirements and a capability to consistently fulfill these requirements.

- 1. Determining customer requirements
- 1.1 Customer requirements are understood broadly to include all aspects of product requirements and associated services, that are relevant to customer satisfaction. When appropriate, this may also include customer needs and

expectations. Specialized ongoing Customer requirements and attributes are also understood and documented.
1.2 Customer order requirements are determined and verified through the process of order review. This process is defined in this manual in Section 7.2, Customer-related Processes, and in operational procedures QOP-72-01 Order Processing.
Jua-orderentry-How long do you have
within a day activo depining

2. Meeting customer requirements

2.1 Nearly all processes and elements of the quality system are designed and implemented specifically to ensure that customer requirements are met. This starts with provision of required training, and adequate infrastructure and suitable work environment (Section 6, Resource Management). Next follows planning and implementation of reliable and effective product realization processes (Section 7, Product Realization). And finally, activities related to product and process monitoring and verification (Section 8, Measurement, Analysis and Improvement).



2.2 Meeting of customer requirements is monitored and/or verified by variety of methods defined in Section 8.2, Monitoring and Measurement, and in associated operational procedures. Results of these verification activities are recorded to provide evidence of product conformity, as defined in Section 4.2, Documentation and Records.
Brenda- How is conformity of products
OA Process ofter build and traction
3. Customer satisfaction
3.1 Focusing on customer requirements and on meeting these requirements should result in enhancing customer satisfaction. In fact, the level of customer satisfaction is used as a measure of the effectiveness of the whole quality system.
3.2 Specific methods for determining customer satisfaction are defined in quality manual Section 8.2 and in the associated operational procedure QOP-82-01, Customer Satisfaction. This valuable information is reported and used as described

in Section 5.6, Management Review.

QM 7.1 – Planning of Product Realization

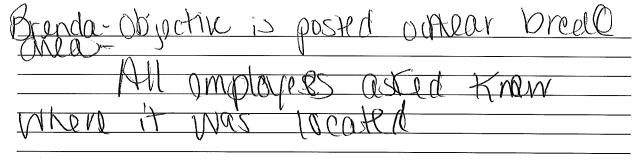
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Quality Manual	7 – Product Realization	
Section 7.1	Section Revision: A	Revision Date: 7/12/2010
7.1 - Planning of	Product Realization	
Approved By: Todd	Gifford	Date: 7/12/2010

GENERAL POLICY

Planning of product realization processes includes determination of requirements and quality objectives for products and services applicable to a product distribution-only environment; and establishment of processes, and documents, and to provide resources specific to the product. The plan also defines requirements for records necessary to demonstrate process and product conformity.

- 1. Product requirements and quality objectives
- 1.1 Product requirements and quality objectives (if applicable) for product are defined and communicated in customer orders submitted to Dee Electronics.



1.2 Section 7.2 of this manual explains in more detail how customer and product requirements are determined and reviewed.
2. Product realization planning
2.1 Product realization planning includes, as applicable:
Development of adequate and capable processes,
Identification of special processes and consideration of associated risks and consequences,
Establishment and implementation of appropriate process control measures,
Development of instructions, documents, and training for process operators, and
Requirements for records necessary to demonstrate process conformity.
Brende Where is training for individuals logged?
traing logg-roviewed after 30 days
nhon imail is sont on monday's
poked at training logg whate amount
SIM on 3/30 J JJ

2.2 Product realization plans are established in collaboration between the President, CEO/Treasurer, Vice President of Operations, Operations staff, and Quality Assurance. The plans are defined in various types of documents, such as process

flowcharts, work instructions, work orders, control plans, operator instructions, process validation reports, etc.
2.3 Operational procedures related to Section 7.5, Production and Service/Operations, explain how outputs of product realization planning are used.
3. Product verification and validation planning
3.1 Product verification, validation, monitoring, measurement, and inspection plans determine the inspection program (if applicable) for a product or service. This includes:
Any applicable Identification of inspection points,
Any applicable Inspection scope, frequency, and method,
Any applicable Acceptance criteria, and
Any applicable Requirements for records necessary to demonstrate product conformity.

3.2 The President, Vice President of Operations, Vice President of Sales, Quality Assurance, Production Supervisor, and Distribution Supervisor are responsible for development of any applicable product verification plans. The plans are defined in various types of documents, such as specifications, special handling instructions, work orders, purchasing documents, inspection procedures, and so forth. Documents defining the inspection program for a product (if applicable) are collectively referred to as control plans.
Brenda-Whore are dooments housed regarding a inspection for specific products? Terry-Packing rejoing—now do you Kenow it there are special bandling instructions? On vectoring screen
3.3 Operational Procedures QOP-74-03, Verification of Purchased Product; QOP-82-04, In-process Inspections; and QOP-82-05, Final Inspection, explain how outputs of product verification and validation planning are used.
Randy Quality check thou do you know It
A quality Assurance Skot Shows Jpoifications Drawing are allocked to quality assurance steet

QOP-71-01 Control Plan Development

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QMS Operational Procedure	QOP-71-01	
Section 7.1	Section Revision: B	Revision Date: 2/2/2015
Control Plan Development		
Approved By: Todd Gifford		Date: 11/15/14
PURPOSE		Date: 11/10/14
The purpose of this procedure is to esponsibilities for creating assem	o provide for a system and in bly Control Plans.	structions, and to assign

II APPLICATION

This procedure applies to all assemblies. This procedure concerns Assembly and Quality Assurance departments.

III PROCEDURE

1. DEE creates a Control Plan for each assembly or applicable assembly family that includes a PFD Process Flow Diagram, PFMEA, Control Plan, Work Instructions, and linked or relevant specifications and client requirements. Training for developing Control Plans is identified in the Training Matrix.

2. The PFMEA is created and identifies higher risk processes or components or CTQ Critical to Quality aspects of assembly. Client CTQ Critical to Quality issues or aspects for assembly are requested by DEE and included in PFMEA/Control Plan where applicable. Where there is a high risk process or component identified in the PFMEA, the following steps are taken:	1
2.1 High risk process – identify poke yoke/error proofing methods to eliminate risk, which could be systems or jigs, etc The production of the productio	e
2.2 High risk component – request a Certificate of Analysis for CTQ aspect of component from supplier or request a PFMEA/Control plan from supplier or identify specific incoming inspection criteria and utilize for incoming inspection.	
Jarry-reciewing-where is incomming inspection Journanted SIA Dottom Of Verilying	

2.3 High risk process involving a tool or device with calibration requirements – identify a proactive assessment process to ensure proper calibration. An example would implementation of an in-
process quality inspection or measurement which proactively assesses proper calibration.
Brenda-where is the colibration log?
Access - callibration 100
tools are looged
tools are logged
calipors and tape measurers are done in hous
2.4 Quality Manager will sign off PFMEA of all control plans3. Control Plan is linked in System to Assembly Part # and only the most current version of the
Control Plan is available to users