



ISO9001:2015 / AS9100D

Quality Manual

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1. Introduction

This Quality Manual describes the policies and companywide control system of the PEI Genesis UK Ltd Quality Management System (QMS)

The QMS described in this manual meets the requirements of the ISO 9001:2015 and AS9100D international standards.

2. Context of the Organisation

PEI-Genesis is one of the world's fastest assemblers of precision connectors and cable assemblies. PEI partners with customers to provide engineered solutions that meet specific application requirements and then delivers with speed, service and consistent quality that is unmatched in the industry.

Proprietary automation in mirrored factories around the world allows PEI to assemble, from one of the largest inventories of electronic components, according to commercial, mil-spec and customer-specific requirements. PEI develops custom interconnect solutions that support the harsh environments of the aviation, energy, military, industrial, rail, and other sectors worldwide.

Over 70% of products sold are assembled to order. PEI provides a highly tailored solution shipped fast with a minimum order quantity of one piece. PEI-Genesis is also in the unique position of being the only value-add connector distributor with assembly facilities in North America, Europe and Asia.

With fast shipping and excellent, responsive service, PEI-Genesis provides access to the brands design engineers trust. PEI's line card includes the top global brands in the connector industry, including Amphenol, ITT Cannon, CINCH, Esterline/SOURIAU, Conesys, Lemo, Harting and TE Connectivity brands DEUTSCH, Raychem and Polamco.

Founded in 1946 by Murray Fisher and Bernie Bernbaum, PEI remains a family-owned company, steeped in the same traditions of innovation, integrity, teamwork, and delivery of excellence to its customers.

Information about external and internal issues affecting the organization's purpose and strategic direction are monitored by evaluating feedback from relevant interested parties (refer to section 3). Context shall be reviewed during Management Review and updated as needed based upon that feedback.

3. Relevant Interested Parties

PEI-Genesis has determined the following internal and external entities are interested parties relevant to the effective implementation of this Quality Management System: Customers, Owners, Board of Directors, Employees, Suppliers, Contractors, Export Control Organisation, Chamber of Commerce, HMRC, Business Solicitors/Accountants, and European Union Regulatory Bodies.

PEI-Genesis monitors and reviews information about these internal and external interested parties and the relevance of the impact of their requirements on the ability to provide conforming products and services. Records of customer, statutory, and/or regulatory information reviewed may be found in, but not limited to contract/order reviews, management reviews, customer communication(s), corrective actions, strategic business plan meetings, and risk analyses.

4. Quality Policy



The Quality Policy is reviewed for suitability and effectiveness by the Senior Management Team through Quality Management Review. Any and all changes are communicated to staff pertinent to the Southampton, UK facility.

PEI-Genesis (UK) Ltd commits to operating in accordance with ISO9001 / AS9100D, along with ATEX Directive 2014/34/EU, IECEx 02 and the applicable Ex certification and technical documentation, where required.

The Quality Policy is communicated to all staff using the following methods:

- New Starter Orientation Packs
- Facility Notice Boards
- Online at OurPEI Wiki webpage
- Various strategic locations across the facility

5. Scope of Registration

ISO 9001:2015 / AS9100D **Distribution and Assembly of Connectors and Accessories, Manufacture of Cable Assemblies**

ISO9001 / AS9100D, Section 8.3 – Design and Development of Products and Services is not applicable to this Quality Management System. PEI-Genesis UK Ltd does not undertake any design activities and does not form part of the Scope of Registration.

The Scope of Registration does not vary between ISO 9001:2015 and AS9100 Rev. D standards.

For a List of Procedures required by the QMS, please refer to Appendix A of this Quality Manual.

5.1 EX Product

For EX Product only, PEI-Genesis (UK) Ltd operates in accordance with ATEX Directive 2014/34/EU, IECEx 02 and the applicable Ex certification and technical documentation.

5.2 Special Processes

As a value-added distributor, PEI-Genesis (UK) Ltd does not undertake, or outsource, special processes.

6. Interaction of Processes

All ISO9001:2015 / AS9100D manufacturing processes are carried out at the Southampton UK, location. Sales, service and manufacturing processes are administrated by PEI Genesis. Related resources required by the QMS are made available to relevant functions at this location and are managed by authorised personnel to whatever extent necessary, appropriate for the scope of operations performed.

The Interaction of Processes required by the QMS is shown in Appendix B of this Quality Manual. This demonstrates the sequence and interaction of the processes required by this Quality Management System. Arrows are utilised to demonstrate the information flow through the business.

Appendix C breaks down each process in the form of a Turtle Diagram. These summarise the inputs, activities, outputs and Key Performance Indicators (KPIs). Review of the Turtle Diagrams takes place at least annually for applicability and currency.

Outsourced Processes

Outsourced processes required by the QMS are managed in accordance with the requirements described in the Purchasing Procedure (QP 008).

Outsourced processes required by the QMS may include, but are not limited to the following:

- Certain Production,
- Calibration,
- Transportation,
- Preventive Maintenance.

7. Leadership and Commitment

7.1 Commitment

The top management of PEI-Genesis UK Ltd is committed to the continued compliance and improvement of an effective AS9100 Quality Management System. This commitment is demonstrated by:

- Taking accountability for the effectiveness of the Quality Management System.
- Communicating to the organization the importance of meeting all customer, regulatory, and legal requirements.
- Continuously monitoring the Quality Management System outputs and results to ensure customer satisfaction.
- Establishing and regularly reviewing the PEI-Genesis UK Ltd Quality Policy for total commitment to customer excellence and the associated quality objectives.
- Conducting regular Quality Management Reviews and ensuring that the resources required for the Quality Management System are available to enable the system to achieve its intended results.
- Identifying and acquisition of controls, processes, equipment, fixtures, resources, and skills need to achieve the required standards of this Quality Management System.
- Taking the appropriate action to ensure that the PEI-Genesis Quality Objectives meet their intended targets.
- Promote continuous improvement of the Quality Management System and its processes.

7.2 Organisational Changes

The business shall ensure that key customers, suppliers, Original Equipment Manufacturers, and regulatory bodies are informed of any significant organisational changes to PEI-Genesis (UK) Ltd within 30 days. This includes, but not limited to, changes that involve key personnel, location, and manufacturing capability.

8. Ex Authorised Personnel

PEI-Genesis UK Ltd is a Value-Added Distributor that operates to a multitude of industries, including those that require the use of Ex Products. As such, it is the responsibility of PEI-Genesis UK Ltd to appoint Ex Authorised Person(s) to ensure that any manufactured Ex product is done so in full accordance with its appropriate certificate and supporting technical documentation. Ex Products that are manufactured and distributed by PEI-Genesis should be done so in relation to the following standards:

- AS9100 Rev. D/ISO9001: Aerospace Quality Management System
- ATEX Directive 2014/34/EU, IECEx 02, including ISO/IEC 80079-34: Explosive Atmospheres – Part 34: Application of quality systems for Ex product manufacture

The following roles have been appointed within the organisation as Ex Authorised Person(s) and it is the responsibility of the approved Ex Authorised Person(s) to support the ongoing co-ordination and management of activities with respect to the Ex product range. This should be in accordance with applicable clauses as outlined in ISO/IEC 80079-34.

- UK MR & Quality Compliance Manager (Ex Authorised)
- European Engineering Manager (Ex Authorised)
- Product Manager (Ex Authorised)

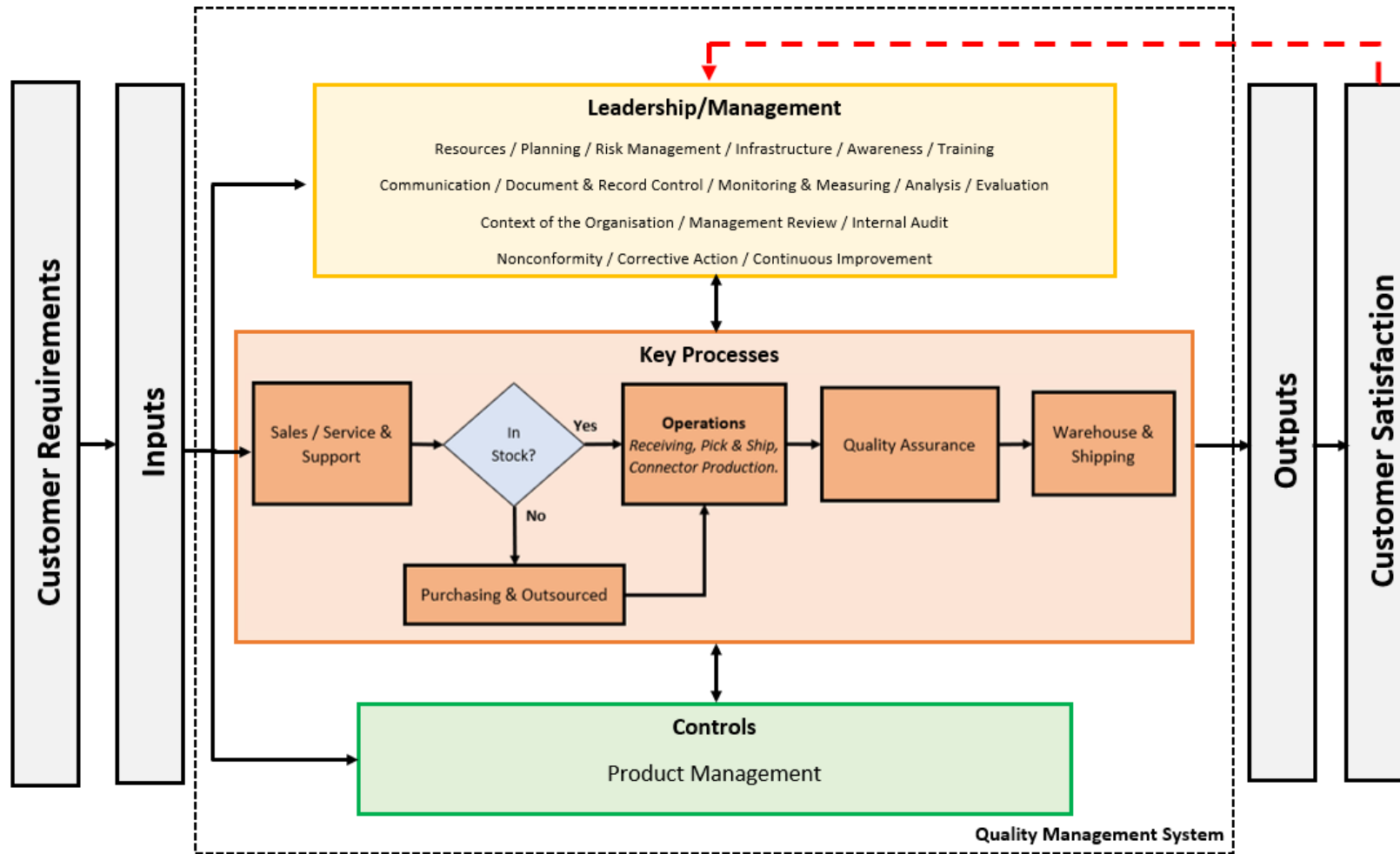
The responsibilities of these roles in relation to ISO/IEC 80079-34 clause 5.3 & 8.4 requirements are outlined below:

Clause	Requirement	Responsible Person(s)
5.3 a)	The effective co-ordination of activities with respect to Ex Products;	Quality Compliance Manager
5.3 b)	The liaison with the issuer of the certificate (when not issued by the manufacturer) with respect to any proposed change to the design defined in the certificate and the technical documentation;	Quality Compliance Manager Product Manager Industrial Engineering Manager
5.3 c)	The liaison with the body responsible for the verification of the quality management system with respect to intended updating of the quality management system;	Quality Compliance Manager
5.3 d)	The authorization of initial approval and changes to related drawings, where appropriate;	Quality Compliance Manager Industrial Engineering Manager
5.3 e)	The authorization of concessions	Quality Compliance Manager
5.3 f)	The accuracy of relevant information regarding Ex Product given to the customer for any sales literature and installation instructions (which shall include applicable Specific Conditions of Use and any Schedule of Limitations);	Product Manager Quality Compliance Manager
5.3 g)	The effective coordination of manufacturing processes related to Ex Products including externally provided products, services and processes detailed in 8.4; In the case of a manufacturer with multiple manufacturing sites an Ex authorized person with relevant responsibilities shall be appointed for each site.	Industrial Engineering Manager Quality Compliance Manager
8.4 a)	While manufacture, test and final inspection may be sub-contracted, the responsibility for ensuring conformance with the certificate and the technical documentation shall not be sub-contracted	Industrial Engineering Manager Quality Compliance Manager
8.4 b)	External providers providing a product, process, or service that can affect the Ex Product's compliance with the certificate shall only be selected after an evaluation has provided evidence that they have the capability of ensuring compliance with all specified requirements	Quality Compliance Manager

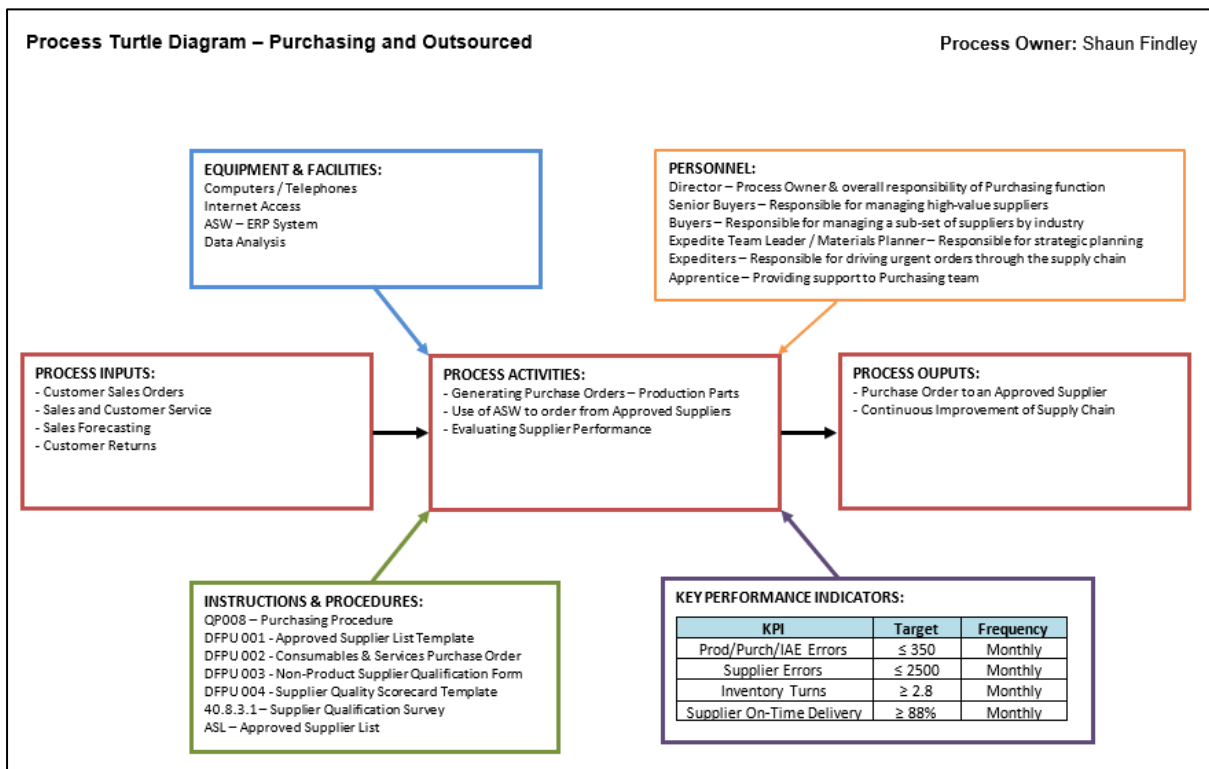
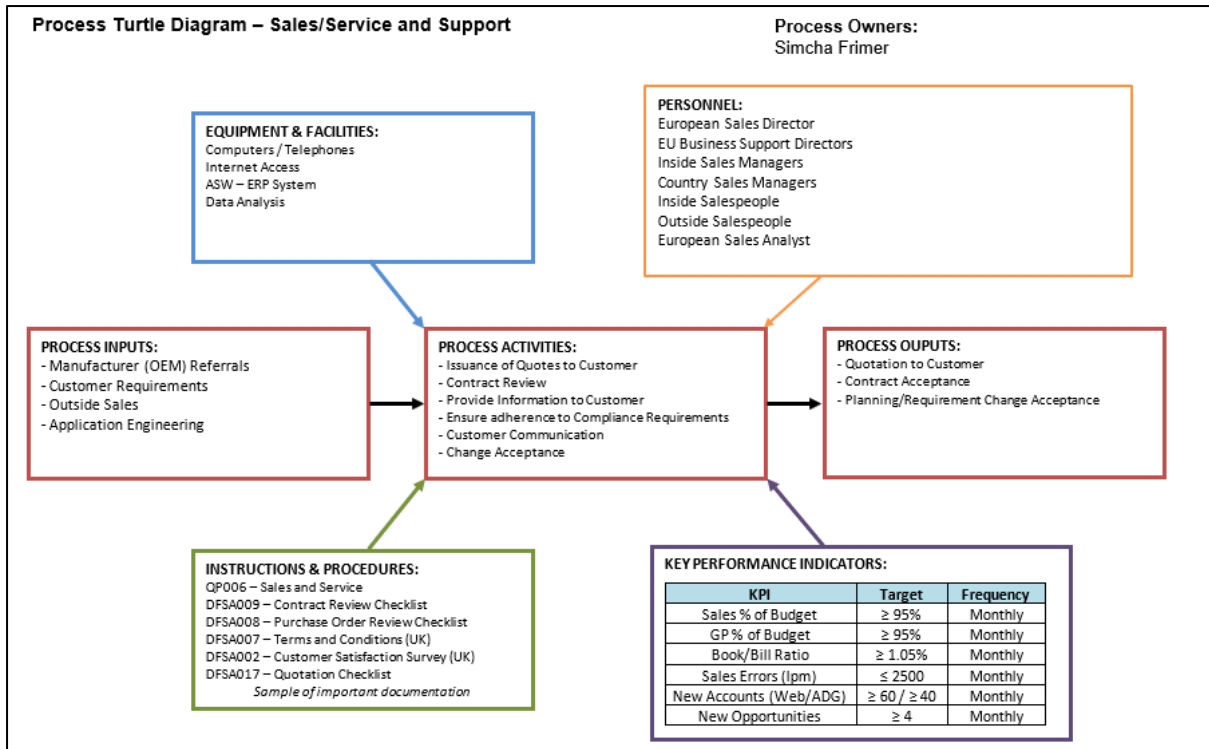
APPENDIX A
LIST OF PROCEDURES

SUPPORTING DOCUMENTATION	REFERENCE
Control of Documents	QP001
Control of Records	QP002
Management Review	QP003
Training	QP004
Sales and Service	QP006
Purchasing	QP008
Control of Monitoring and Measuring Equipment	QP009
Internal Audit	QP010
Control of Non-Conforming Product	QP011
Corrective Action	QP012
Preventive Action	QP013
Planning of Product Realisation	QP014
Risks and Opportunities	QP015
Quality Objectives	QP016
Counterfeit Prevention Plan	QP017

APPENDIX B
INTERACTION OF PROCESSES

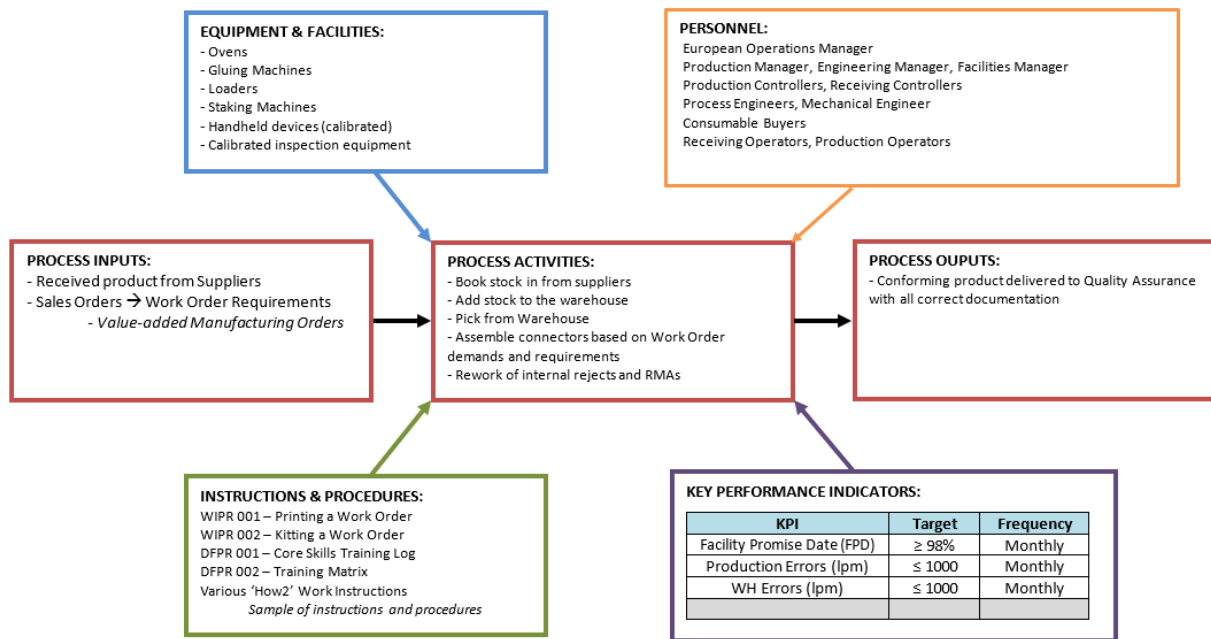


APPENDIX C – PROCESS TURTLE DIAGRAMS



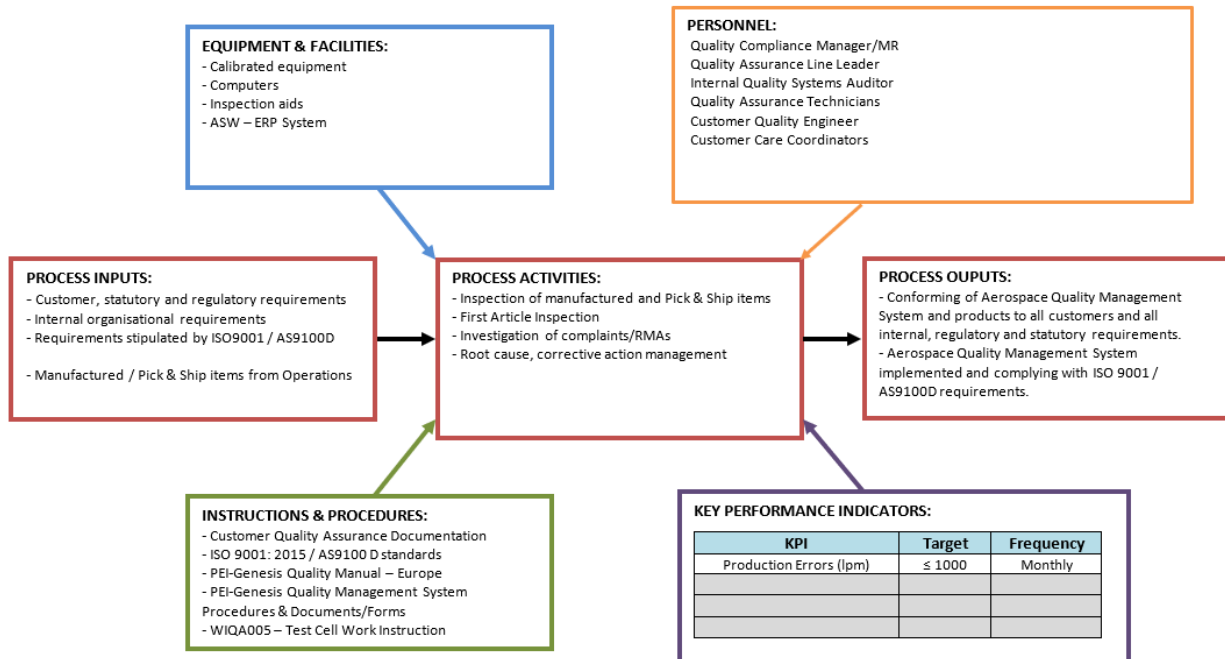
Process Turtle Diagram – Operations

Process Owner: Lee Slater



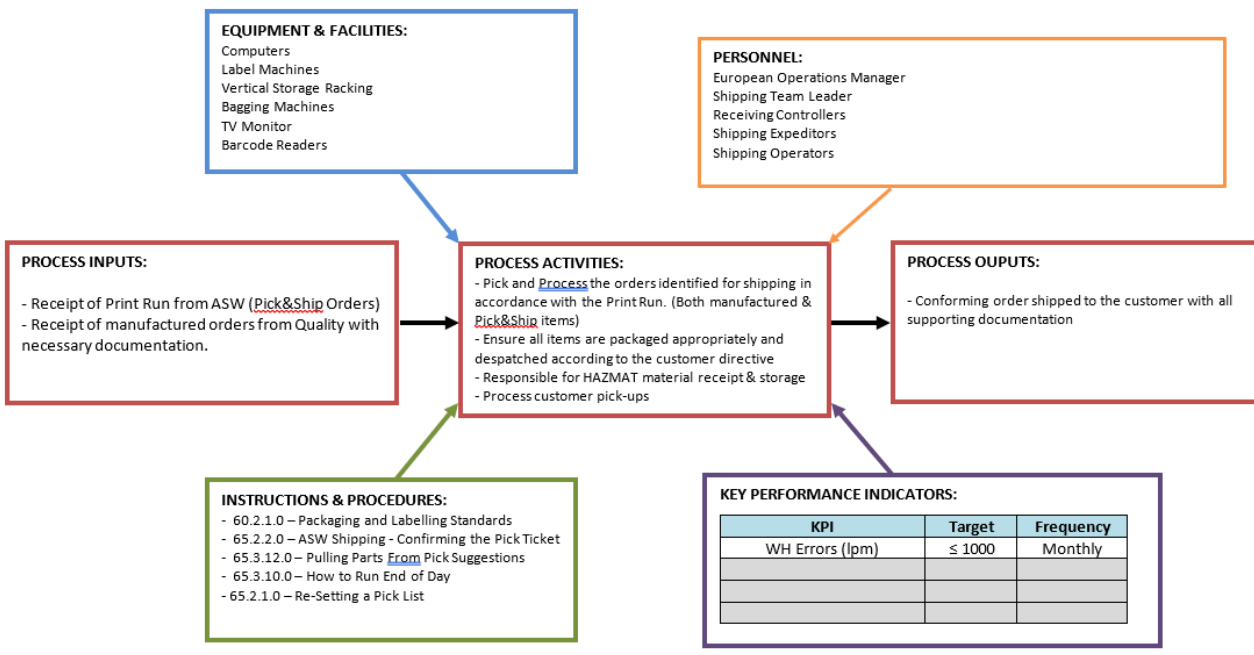
Process Turtle Diagram – Quality Assurance

Process Owner: Keiran Woodmass



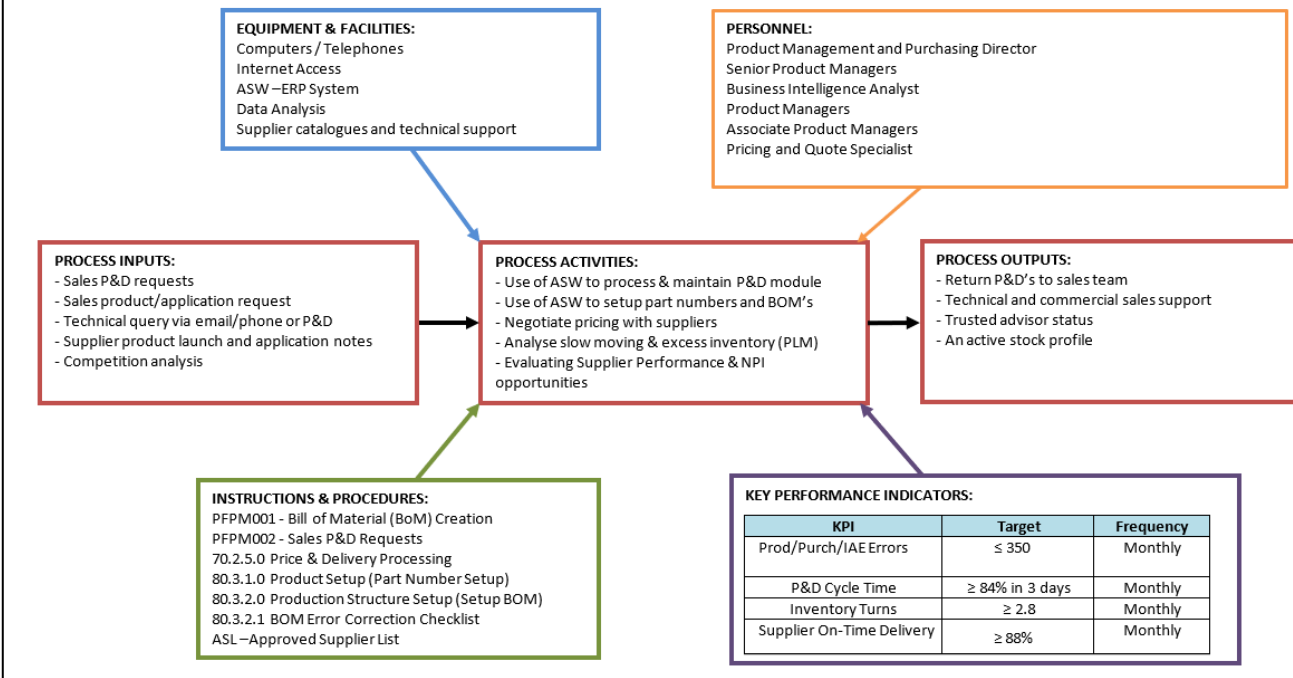
Process Turtle Diagram – Warehouse/Shipping

Process Owner: Joanne Williams / Lee Slater



Process Turtle Diagram – Product Management

Process Owner: Shaun Findley



AMENDMENT RECORD

REVISION DATE	DESCRIPTION	APPROVAL
14 May 2014	First Release	H. Brind / S. Gold
29 Jan 2015	Modification to Scope of Registration (removal of Value Added) Addition of exclusion to 7.5.2	S Gold
10 June 2015	Added ISO 9001 reference to Section 5 Interaction of Processes Updated Appendices A and B	S Gold
28 July 2015	Outsourced Process removed from Appendix A Sales changed to Sales and Service on IOP Product Management changed to Planning of Product Realisation on IOP Purchasing changed to Purchasing and Outsourced on IOP Management Responsibility added to Resource Management	S Gold
28 Oct 2016	Changes to scope of registration, Post Delivery Support exclusion ISO 9001:2008 only (design & development)	S Gold
9 Jan 2016	Section 4. Scope : Customer site "warranty" and/or "service" are not provided. PEI Genesis UK employ a "Returns (RMA)" procedure for field detected non conformities.	S Gold
12 Jan 2018	Rev D transition re-write	S Gold
29 March 2018	ISO Only added to Design within IOP	S Gold
29 March 2019	Conesys, Lemo Harting added to Para 2	S Gold
24 Feb 2020	<ul style="list-style-type: none"> • Section 2 – ESG and design para removed • Section 4 – Quality Policy review period and communication methods added. • Section 5 – Scope of Registration amended to reflect the removal of Design and alignment of ISO 9001 and AS9100 D scopes. • Section 6 – Further detail added regarding the interaction of key business processes. Addition of Appendix C, key process Turtle diagrams. • Appendix B – Updated to reflect current business process interactions • Appendix C – Turtle Diagrams created to breakdown each key business process. 	L Slater
6 Aug 2020	<ul style="list-style-type: none"> • QP016 – Added to Appendix A • Appendix C – Purchasing & QA Turtle Diagrams updated. 	L Slater

25 Aug 2020	<ul style="list-style-type: none"> Any reference to 'Design' has been removed Reference to QP007 has been removed Section 5 – Statement of non-applicability entered for Design Section 6 – Further detail added regarding the interaction of key business processes. Appendix B – Updated Appendix D & E – Introduced. 	L Slater
8 Sept 2020	<ul style="list-style-type: none"> Section 7 – Leadership and Commitment Added 	L Slater
5 Nov 2020	<ul style="list-style-type: none"> Section 8 – Ex Authorised Personnel added 	L Slater
6 April 2021	<ul style="list-style-type: none"> Sequence and Interaction of Processes updated to align with business strategy. Turtle diagrams Appendix D & E removed Appendix C – Product Management moved from Appendix E 	L Slater
11 May 2021	<ul style="list-style-type: none"> Personnel section on each Turtle Diagram amended to remove employee numbers 	L Slater
22 Nov 2021	<ul style="list-style-type: none"> Section 7.2 added – Organisational Changes Turtle Diagram KPI targets updated 	L Slater
24 Aug 2022	<ul style="list-style-type: none"> Updated Section 4, 5 & 8 to include Ex Directives and PEI commitment statement Turtle Diagrams updated Special Process statement added (Section 5.2) 	L Slater