

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 1 OF 15

Table of Contents

1. Purpose	1
2. Scope	1
3. Overview.....	2
4. Responsibilities.....	2
5. EQOS-01: Management Commitment and Involvement	2
6. EQOS-02: Equipment Maintenance and Spares Support	3
7. EQOS-03: Hiring, Training, Certification.....	4
8. EQOS-04: Control of Non-conformances	5
9. EQOS-05: Product Control	6
10.EQOS-06: Inspection and Test.....	7
11.EQOS-07: Internal Quality Audit System.....	7
12.EQOS-08 Process Monitor and Control	7
13.EQOS-09: Change Control.....	8
14.EQOS-10: Packaging/Shipping	9
15.EQOS-11: Document Control System	10
16.EQOS-12: Metrology and Test Equipment Control	10
17.EQOS-14: Supplier Management.....	11
18.EQOS-15: Design and Development.....	11
19.EQOS-16: Business Continuity Planning	12
20.EQOS-17: Planning	12
21.EQOS-18: Safety & Environmental, Social and Governance (ESG)	13
22.EQOS-21: IP and Information Security.....	14
23.Revision History.....	14

1. PURPOSE

- 1.1 This document describes the Entegris Quality Operating System (EQOS) which is deployed globally across Entegris facilities. It describes the element structure demonstrating Entegris' systems and processes to consistently provide products and services that meet our customer and regulatory requirements.

2. SCOPE

- 2.1 This document applies at all Entegris manufacturing locations.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 3 OF 15

- 5.2.2.1 Corporate objectives are cascaded down to each manufacturing plant. Plant management establishes local objectives to supplement. Improvement projects are planned and resourced to support the defined objectives.
- 5.2.2.2 A balanced scorecard or dashboard exists to track plant key performance indicators, or KPIs, including safety, quality and manufacturing performance.
- 5.2.2.3 Each plant holds periodic management reviews where performance against the objectives is monitored. This includes KPIs and status of actions/projects, customer feedback, and effectiveness of the quality system.
- 5.2.2.4 Every Entegris employee has the responsibility and empowerment to identify potential quality concerns. Evidence of employee empowerment to make quality-oriented decisions are illustrated through the use of work instructions, OOC RFC (out of control response flow chart), DRB/MRB policy (Disposition Review Board/Materials Review Board), etc.
- 5.2.2.5 Methods and systems are in place to retain knowledge when key personnel are changed through the use of training programs and learning management systems.
- 5.2.3 Entegris has a published quality policy, of which all employees are aware. This is readily available within the corporate overview /Policies at <https://www.entegris.com/en/home/about-us/corporate-overview.html#policies>
- 5.2.4 Entegris leadership has established a Corporate Social Responsibility Program built on four pillars of Innovation, Safety, Personal Development & Inclusion, and Sustainability. This can be referenced at <https://www.entegris.com/en/home/about-us/corporate-social-responsibility.html> .

6. **EQOS-02: EQUIPMENT MAINTENANCE AND SPARES SUPPORT**

6.1 **Business Process Definition:** System and methodologies to define, monitor and measure preventive and corrective maintenance for manufacturing/production equipment, facilities equipment and related tooling including spares management.

6.2 **Corporate Approach**

- 6.2.1 A Preventive Maintenance system is in place for production equipment and support equipment throughout Entegris manufacturing facilities. The equipment asset management system may be integrated into the overall enterprise or locally managed through controlled documentation. The system includes a master list of equipment, preventative maintenance methods, frequency, and the preventative maintenance schedule as well as containing the management of consumables and spare parts related to maintenance.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 4 OF 15

- 6.2.1.1 Indicators may be established for equipment unavailable for production due to maintenance.
- 6.2.1.2 Preventative maintenance frequencies are typically established based on Original Equipment Manufacturer (OEM) recommendations and are adjusted based on supporting risk data.
- 6.2.1.3 Changes to scheduling, qualified spare parts, new tools, and maintenance procedures are managed through the corporate Change Control system with appropriate approval levels defined.
- 6.2.1.4 Equipment excursions trigger a disposition review process when appropriate to disposition any nonconforming material.
- 6.2.1.5 Equipment maintenance information and data are kept for the lifetime of the equipment.

7. EQOS-03: HIRING, TRAINING, CERTIFICATION

7.1 Business Process Definition: Defines system or systems and methodologies to hire and equip each person to be qualified to perform their jobs using an infrastructure that supports all aspects of scheduling and delivering the training at the desired frequency.

7.2 Corporate Approach

- 7.2.1 It is recognized that our employees are a key asset in the organization, and our reputation can be impacted, positively or negatively, by a candidate's experience. Hiring practices are structured to create a positive experience for both the potential candidate and the hiring manager and are consistent across the organization, unified with a common set of process and principles.
 - 7.2.1.1 Entegris utilizes a cloud recruiting platform which serves as the applicant tracking system for hiring as well as a repository for hiring records.
 - 7.2.1.2 Employee hiring decisions are based on business needs which are captured in the job description for the approved job requisition.
 - 7.2.1.3 Employee turnover is monitored by human resources at the corporate and local levels on a regular basis to ensure skills and culture are maintained.
- 7.2.2 Systems are established to manage and track quality and operations training for both direct and indirect labor. In some cases, this may be locally managed through controlled documentation. Training requirements are assigned based on the individual's role(s).

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 5 OF 15

- 7.2.2.1 Types of training include but are not limited to: Controlled Documents (Read and Acknowledge), Job Specific On-The-Job Certifications and proficiency validations, Instructor Led Courses, EHS Training (Site Specific/Renewable), Quizzes/Understanding Verification, soft skills training, on-demand training, proficiency demonstrations, etc.
- 7.2.2.2 Operators and technicians are certified by validating and documenting their ability to independently and successfully operate a machine or perform a process to specified requirements. Certification occurs prior to working independently. Trainers authorized to certify others must meet documented requirements.
- 7.2.2.3 Retraining, decertification and recertification processes are used when required to ensure that safety, quality and manufacturing processes are consistently performed.
- 7.2.2.4 Training completion metrics are monitored at the multiple levels of the organization.

8. **EQOS-04: CONTROL OF NON-CONFORMANCES**

- 8.1 **Business Process Definition:** Defines the identification, segregation, containment and disposition processes for questionable and discrepant material. Defines excursion management including customer communication, effective root cause analysis methodology, and risk assessment. Defines the processes to handle quality issue corrective and preventative actions (CAPA).

8.2 **Corporate Approach**

- 8.2.1 Global, questionable and discrepant material definitions are applied to raw material, in-process material, and finished goods. Information is provided to aid in the approach for recognition, segregation, and disposition of non-conforming materials with the intention to prevent downstream impact to the external and internal customers of a given process, final product quality, and deliveries as well as clearly defining minimum requirements for formal review. Every employee has the responsibility and empowerment to identify potential non-conformances.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 6 OF 15

- 8.2.1.1 Immediate segregation occurs when nonconforming material is identified through system blocks and quarantine locations.
- 8.2.1.2 Response Flow Checklists (RFCs) and Out of Control Action Plans (OCAPs) are documented to guide immediate response and escalation within manufacturing for common issues.
- 8.2.1.3 Records of nonconformances are kept digitally which include lot information, the nonconformity description, actions taken, and disposition.
- 8.2.1.4 Disposition Review processes and steps are defined and require cross-functional representation. Processes defined include risk assessments, root cause determination, corrective action, as well as customer notification and approvals.
- 8.2.1.5 Entegris employs a standardized 8D problem solving process for customer complaints and appropriate internal issues.
- 8.2.1.6 Metrics such as DPPM (defective parts per million) and response time are established to monitor system health.

9. EQOS-05: PRODUCT CONTROL

9.1 **Business Process Definition:** Defines process flow documentation, WIP (work in progress) management, factory automation, material movement & queue time management, and manufacturing/storage environment controls. Raw material & finished goods management such as handling, identification etc. Outlines the requirements for system data management and traceability.

9.2 Corporate Approach

- 9.2.1 Entegris is committed to ensuring that our products consistently meet customer expectations using proper controls and systems.
 - 9.2.1.1 Entegris utilizes an electronic enterprise resource planning (ERP) system as the production floor control system. Product BOMs (bill of materials), routings and specifications as well as build status tracking are housed in this system. Each lot of material has a unique production work order & batch number. Traceability, status and physical segregation is maintained throughout the process for product, WIP and raw materials with anti-mixing systems in place. Product traceability to raw materials, subassemblies, equipment used, operators, date/time and other important production information is maintained.
 - 9.2.1.2 Manufacturing work in progress (WIP) flow is prioritized using FIFO (first in, first out) and/or FEFO (first expired, first out). Queue times are understood and controlled.
- 9.2.2 Product & Process-based Control Plans are established which list required process steps, inspections, and tests as well as environmental controls. Control Plans are housed as controlled documents with regular review and on-going improvement through risk analysis such as FMEA (failure mode & effects analysis).
- 9.2.3 Documentation containing the necessary information to build the product (e.g. work instructions) is controlled and exists for all manufacturing steps, inspections and tests with the subsequent data and results being recorded and accessible.
- 9.2.4 Engineering or non-production builds are controlled through separate and defined work order processes.
- 9.2.5 Metrics and Key Performance Indicators (KPIs) such as On Time Shipment (OTS) and scrap are established and monitored.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement <i>An Entegris Way Document</i>	PAGE 7 OF 15

10. EQOS-06: INSPECTION AND TEST

10.1 **Business Process Definition:** Defines quality assurance plan for incoming, in-process and outgoing materials. Covers attributes for materials incoming QA/QC as well as process for visual inspection evaluation, traceability and data integrity of the analytical data (measurement results).

10.2 Corporate Approach

10.2.1 Quality and Operations partner to determine the inspection and test parameters needed to ensure products consistently meet required specifications based upon engineering knowledge, production data analysis, risk analysis (such as failure mode & effects analysis FMEA), or experiments designed to detect process drivers as well as understanding customer requirements. These include evaluation of incoming materials, in-process steps & parameters as well as outgoing materials and are documented through Product Control Plans.

10.2.1.1 Entegris utilizes a tier 1 electronic data management systems for supplier, in-process, and final test related data as well as laboratory information systems to provide clear data traceability.

10.2.1.2 Typical tools employed to determine the health of inspection and test processes include statistical methods such as Gauge R&R, Long Term Stability (LTS), and/or Measurement System Analysis (MSA).

11. EQOS-07: INTERNAL QUALITY AUDIT SYSTEM

11.1 **Business Process Definition:** Defines internal quality audit processes.

11.2 Corporate Approach

11.2.1 Entegris has deployed a global quality system assessment process comprised of a documented yearly audit plan based on manufacturing site risk analysis with the requirement to audit all elements of the system within 3 years. This process ensures that the EQOS is effectively implemented and maintained.

11.2.2 Additional process audits are coordinated, scheduled and conducted by each plant.

11.2.3 Quality System audits are led by Lead EQOS auditors who have completed external ISO9001 training as well as internal supplemental training. Support and process auditors minimally undergo internally delivered training. All records related to the internal audit program are controlled.

11.2.4 Corrective and preventative actions are issued to owners for gaps observed during audits and may be tracked electronically through the Entegris quality management system.

11.2.5 EQOS and process audit corrective and preventative actions (CAPAs) are monitored for closure at the plant level. Audit reports are stored as controlled documents.

12. EQOS-08 PROCESS MONITOR AND CONTROL

12.1 **Business Process Definition:** Use of statistical process control (SPC) and other statistical or non-statistical methods to identify and remove variation such that processes are stable. This includes methods such as root cause search and response flow checklists (RFCs) to return processes to an in-control state. Outlines the structure of the process control system (PCS) and control limit review as well as SPC software and automation utilized.

12.2 Corporate Approach

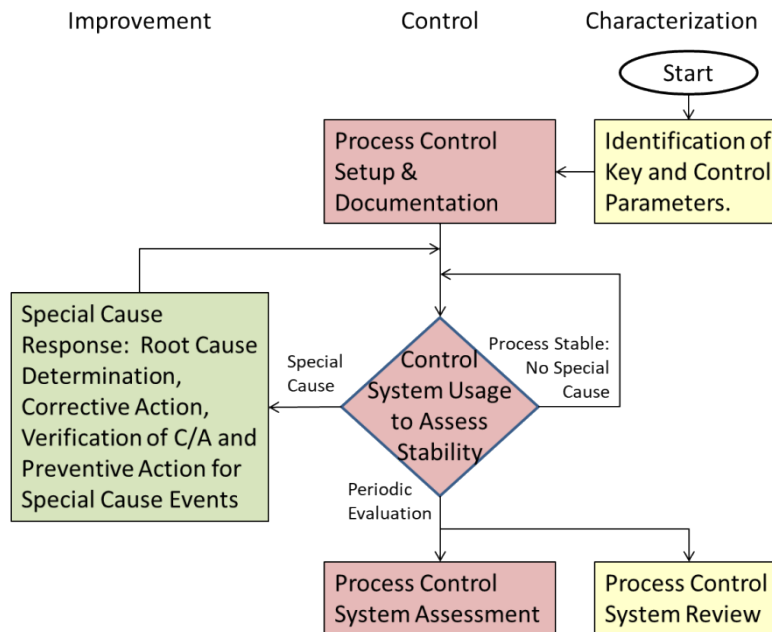
NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 8 OF 15

12.2.1 Process monitoring and control is the means by which Entegris assures quality products for customer satisfaction and economically viable operations for manufacturing. Stable processes provide the foundation upon which continuous improvement, variance reduction and customer satisfaction rest. Process Control System Components include Identification of Customer and Control Parameters, Process Control Setup, Process Control Execution, Process Control Reviews, and Process Control Assessments and are depicted in the figure below 12.2.1.1.

12.2.1.1



12.2.1.2 Manufacturing plants define the parameters to include in the PCS scope and elect to limit scope to high-volume or high criticality products / processes with statistically and non-statistical based limits established for customer and control parameters. Additionally, Process Failure Mode and Effects Analysis (PFMEAs) are established for all major processes and used to select customer and control parameters for PCS scope. Ship-to-Control product parameters are included in PCS scope.

12.2.2 Documented Response Flow Checklists/Out-of-Control Action Plans (RFCs/OCAPs) are in place for common out-of-control/out-of-spec (OOC/OOS) conditions with these events being captured in the electronic data management system. Disposition Review processes per EQOS-04 take effect in all other instances.

12.2.3 Regular PCS reviews occur for products in scope with tracking of actions with review frequency defined at the plant level.

12.2.4 KPIs, such as percentage Out-of-Control (%OOC) or SPC chart maturity, are utilized to monitor and improve overall system health.

13. EQOS-09: CHANGE CONTROL

13.1 **Business Process Definition:** Define the change management business process, system, tool, template, and acceptance criteria. Customer notification and product change notification (PCN) process defined including supplier change management.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 9 OF 15

13.2 Corporate Approach

- 13.2.1 Our customers trust Entegris products to be consistently good in quality and performance. Entegris understands that effectively managing change is critical to sustain these characteristics. Our change management system is the process responsible for managing change from inception to completion for changes initiated by Entegris, our customers or our suppliers and impacting released, pre-HVM release (pilot), and Beta materials where process-of-record (POR) has been established at the customer and notified to Entegris. The goal of our change management system is to implement planned changes while maximizing benefit and minimizing risk to our employees, processes and products and those of our customers.
- 13.2.2 All changes are reviewed, classified, and approved by a Management of Change (MOC) Site Review Board which consists of a cross-functional representation of employees (this may include Operations, Quality, Product Management, Facilities, etc.). The board considers variables such as change classification, change, timeframe, risk, and customer agreements when reviewing, approving and tracking execution of changes. The impacts of changes are evaluated prior to implementation where appropriate through Qualification plans. Changes are not implemented without approval from the Site Review Board and customers as required.
- 13.2.3 All employees that are directly or indirectly involved with product or process change receive mandatory training concerning Change Control and the criticality of this process to our customers.
- 13.2.4 Suppliers are consistently informed of Entegris change control requirements with Supplier changes managed via the same MOC processes and tools.
- 13.2.5 Metrics for the change control system are published globally and include counts and timing indicators.

14. EQOS-10: PACKAGING/SHIPPING

- 14.1 **Business Process Definition:** Processes to ensure crating, packaging, lot mixing, transportation mode (air/ocean), environmental controls during shipping, including labeling and returns.

14.2 Corporate Approach

- 14.2.1 Entegris has established policies surrounding packaging and shipping of materials which includes raw, in-process and finished goods that are shipped by Entegris and intended for consumption by Entegris and/or to be shipped to Entegris customers.
- 14.2.2 All products shipped to customers have defined packaging requirements. Product packaging uses predefined packaging materials for shipments to customers or transfer to inventory.
- 14.2.3 Consistent and controlled formats have been established for all packing and shipping documentation. Controlled product-specific or site-specific specific packaging procedures provide clear instructions.
- 14.2.4 Packaging and storage requirements include environmental controls and shelf-life controls as appropriate to ensure preservation of product quality. First-in-first-out (FIFO) or First-expired-first-out (FEFO) practices are used for all finished goods in inventory.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 10 OF 15

14.2.5 Records pertaining to shipping and export compliance are retained per local/ regional policy which meets minimum regulatory requirements.

14.2.6 Product is verified for conformance to specifications prior to shipment.

14.2.7 Metrics such as On Time Shipment (OTS) have specified goals and are established for manufacturing plants as well as Third Party Logistics (3PL) Partners. Performance is reviewed by management regularly and improvement plans are identified as needed.

15. EQOS-11: DOCUMENT CONTROL SYSTEM

15.1 **Business Process Definition:** System definition and execution on the control of all documents used in business processes using relevant systems. Defines document and records retention.

15.2 Corporate Approach

15.2.1 Entegris has established processes used to document information needed to ensure an effective quality management system in a controlled, compliant manner through the use of electronic document control systems.

15.2.1.1 Entegris document control systems include document types, document hierarchy, access control, approval loops and workflows, authorship, revision and review cycles, control of changes, distribution, archival requirements, retention and disposition.

15.2.1.2 Records of changes to documents are maintained within the electronic document control system and include a description of the change, approval signatures, approval date, and effective date.

15.2.1.3 Document changes and current revision status are communicated to the appropriate personnel in a timely manner.

15.2.1.4 Obsolete documents are removed from use and placed under restricted access. Suitable identification is applied to them if they are retained for any purpose.

15.2.1.5 Documentation originating from external sources is controlled through the electronic document control system.

15.2.1.6 Document control system metrics have been established to track performance.

16. EQOS-12: METROLOGY AND TEST EQUIPMENT CONTROL

16.1 **Business Process Definition:** Defines measurement tool/gauge repeatability and reproducibility (R&R), calibration, and all quality control surrounding measurement systems.

16.2 Corporate Approach

16.2.1 The Entegris metrology management system includes all measurement, test, and inspection tools (including non-fixed assets) used for incoming, in-process, final product and reliability tests/inspections. Any measurement instrument, gauge, detector, comparator, or any other kind of device that provides information to characterize a material is considered metrology equipment/tooling.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 11 OF 15

- 16.2.1.1 The system uniquely identifies each tool and manages calibration requirements, calibration records, and calibration status for each tool as well as providing notifications when calibrations are due or coming due. Out-of-calibration or out-of-tolerance tools are not used for production.
- 16.2.1.2 Gauge repeatability & reproducibility (gauge R&R) is performed on tools measuring customer and control parameters and correlation and matching studies are performed when duplicate tools exist.
- 16.2.1.3 Long term stability (LTS) is used to monitor and control metrology drift over time for critical measurements. LTS control limits are statistically based.
- 16.2.1.4 Standards are traceable to national standards, industry standards or golden tools/units.
- 16.2.1.5 Performance indicators, such as on-time calibration, are monitored at the manufacturing plant level.

17. EQOS-14: SUPPLIER MANAGEMENT

17.1 **Business Process Definition:** Supply Chain evaluation, monitoring, and adjusting to assure suppliers are able to provide consistent material on time, at the desired quantities while maintaining system that are aligned with Entegris' needs and industry expectations.

17.2 Corporate Approach

- 17.2.1 Entegris understands that its suppliers are an integral part of its supply chain as well as the customers' supply chain. The overall goal is to ensure Entegris', and its customers', expectations and requirements flow directly through to Entegris' suppliers. Performance dashboards as well as supplier data are housed electronically in the Entegris data management system.
 - 17.2.1.1 Suppliers are categorized utilizing risk and magnitude of the potential supply interruption or quality excursion and segmented to prioritize supplier management resources on key suppliers.
 - 17.2.1.2 Suppliers are selected and qualified based on defined criteria. Selection occurs in Development phase or earlier. Electronic workflows document supplier selection and qualification.
 - 17.2.1.3 Supplier requirements are communicated by multiple mechanisms including an expectations packet and supply agreements with key suppliers. Requirements include supplier processes to support non-conforming material management, change management/notification to Entegris, process control systems, metrology management, and business continuity plans (BCP).
 - 17.2.1.4 Suppliers receive performance feedback in the form of Supplier Report Cards, Supplier Business Reviews, and Quality Notifications (for specific material quality issues). Additional communications include demand forecasts and demand changes.
 - 17.2.1.5 Supplier quality system assessments are performed regularly based on risk and are used to prioritize mitigation activities at Entegris or in collaboration with Entegris' suppliers.

18. EQOS-15: DESIGN AND DEVELOPMENT

18.1 **Business Process Definition:** Define design and development process, methodology and/or system used to introduce new products to the market with robust processes.

18.2 Corporate Approach

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 12 OF 15

18.2.1 Entegris maintains an established process to design and develop new products and processes with the intent of creating value for our customers. Product portfolios are aligned with Entegris technology road maps which are derived from our strategic plans. Strategic plans, technology roadmaps and product portfolios are reviewed periodically to ensure alignment with market / customer needs and expectations. Entegris utilizes a phase gate infrastructure to support the design and development process that incorporates checks and balances with defined criteria to move a product from development through release to manufacturing.

18.2.1.1 Technical design reviews are required and completed prior to each gate review.

18.2.1.2 Cross-functional disciplines involved throughout the process include but are not limited to R&D, Engineering, Quality, Finance, Manufacturing, Legal, Marketing, Business Unit and Product Managers, Global Supplier Management, and Environmental Health and Safety/Product Stewardship

18.2.1.3 Voice of the Customer is continually considered thorough the process.

18.2.1.4 Design and Process Failure Modes and Effects Analysis (DFMEA and PFMEA) are utilized to characterize the risk related to the design as well as subsequent manufacturing process.

18.2.2 Performance indicators may include gate reviews per quarter, revenue, number of projects, & resource health. Reviews are conducted on a quarterly basis to track the status of these indicators at the business unit level.

19. **EQOS-16: BUSINESS CONTINUITY PLANNING**

19.1 **Business Process Definition:** Assess, prepare, test, improve and communicate Entegris business assets are at low risk for interruption due to events outside of our normal operation.

19.2 **Corporate Approach**

19.2.1 As a global corporation with locations and suppliers worldwide, Entegris requires business continuity as a key business practice. In the event of a business disruption, our business continuity plans are designed to enable critical business functions such as handling customer orders, overseeing production and deliveries, and managing the supply chain to continue with minimal interruption or recover in a timely manner.

19.2.1.1 All manufacturing sites, as well as Global Information Technology (IT) and Global Logistics have controlled business continuity plans which undergo regular review. Established matrices provide cross-functional ownership and internal & external contacts for all required functions. Team leads are trained annually.

19.2.1.2 Additionally, manufacturing sites maintain Risk and Critical Equipment Assessments. The risk assessment includes mitigation information such as redundant site, equipment backups and equipment spares.

19.2.2 Manufacturing sites conduct testing annually using simulated disruption scenarios with records maintained in the electronic document control system.

20. **EQOS-17: PLANNING**

20.1 **Business Process Definition:** Processes to plan and commit to customer requirements including managing customer-specific requirements with a focus on production planning, demand forecast, etc. (e.g. materials + spares).

20.2 **Corporate Approach**

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 13 OF 15

- 20.2.1 Entegris has adopted a sales and operations planning process to develop tactical plans that provide management the ability to strategically direct its businesses to achieve competitive advantage on a continuous basis by integrating the management of the supply chain with customer-focused marketing plans for new and existing products. The process brings together all the plans for the business (sales, marketing, development, manufacturing, sourcing, and financial) into one integrated set of plans.
- 20.2.2 Entegris has globally deployed a tier 1 Enterprise Resource Planning (ERP) system which integrates the various business processes needed to support multiple functions (examples include procurement, finance, production planning, etc.).
- 20.2.3 All employees that are directly or indirectly involved with planning functions receive mandatory training concerning their role in the planning process.
- 20.2.4 The Entegris Annual Operating Plan (AOP) outlines the forward-looking business plan for the year. The scope covers business & sales outlook, financial outlook, spending budget, headcount budget, capital budget, inventory plan, capacity planning and new product initiatives and product cost definition. Additionally, Entegris has established functional strategic long-range plans (SLRPs) with multi-year horizons.

21. EQOS-18: SAFETY & ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

21.1 **Business Process Definition:** Defines Entegris EHS, Labor, Ethics and Sustainable Supply Chain Expectations.

21.2 Corporate Approach

- 21.2.1 Entegris is committed to the safety of its employees, customers and extended business partners. A clear and strong commitment to safety throughout operations ultimately translates into a best-in-class manufacturing culture required to perform at the highest quality levels expected by our customers. Additionally, Entegris' firm belief is that Entegris' number one competitive advantage is its people. Entegris is committed to creating a workplace where colleagues have opportunities to grow and thrive, feel challenged and fulfilled, and are fairly rewarded for their contributions. Entegris is committed to being a champion of diversity, equal opportunity and inclusion throughout the global community. Finally, Entegris limits the environmental burden of global operations.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 14 OF 15

- 21.2.1.1 Each Entegris plant follows the Environmental Health & Safety (EHS) and Social Accountability (SA) Management System Manuals and outlined management systems.
- 21.2.1.2 Entegris has a published EHS policy, of which all employees are aware. This policy, as well as ISO 14001 and ISO 45001/OHSAS 18000 certificates for applicable facilities, are readily available within the corporate overview Policies/Iso Certifications at <https://www.entegris.com/en/home/about-us/corporate-overview.html#certifications>.
- 21.2.1.3 Entegris has an established Product Stewardship Program with documented yearly goals, that works to ensure Entegris products are manufactured in support of applicable environmental regulations, globally recognized requirements for ethical business practices, and sustainable practices. The program and expectations are applied throughout the company and the global supply chain.

22. EQOS-21: IP AND INFORMATION SECURITY

22.1 **Business Process Definition:** Define intellectual property (IP) and information security practices and global compliance.

22.2 Corporate Approach

- 22.2.1 Intellectual property is an important and valuable asset of the company. Entegris' law department reviews and analyzes its intellectual property and, with its business teams, determines the most effective manner by which to protect the intellectual property. Means of intellectual property protection include patents, trade secret safeguards, copyright, trademarks, non-disclosure agreements/clauses, and other instruments.
- 22.2.1.1 Employees are required to review and are bound by the Entegris Code of Business Ethics, which details requirements relating to intellectual property and confidential information
- 22.2.2 Throughout Entegris, various systems may contain confidential, proprietary and competitive information which allows Entegris to succeed in the marketplace. This information is safeguarded and kept secure both from the external world, and from unauthorized internal users.
- 22.2.2.1 Protocols are deployed globally with respect to physical security, logical security, asset classification and control, software security, wireless communication, monitoring & logging, change management, and handling of potential security incidents.
- 22.2.3 An anonymous Ethics and Compliance ENTEGRITY Hotline is available 24 hours, seven days a week and can be referenced within the corporate overview/ethics at <https://www.entegris.com/en/home/about-us/corporate-overview.html#ethics>.

23. REVISION HISTORY

New Rev	Description of Change	Reason for Change
---------	-----------------------	-------------------

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.

	Title: ENTEGRIS QUALITY OPERATING SYSTEM MANUAL	Revision: 2
Document Number 20838	Policy EQOS-01 : Management Commitment and Involvement An Entegris Way Document	PAGE 15 OF 15

1	Initial release	Initial Release
2	Update 12.2.4 and 15.2.1.6 to refer to current metrics Updated 13.2.1 to clarify when MOC applies in the new product development process Update 13.2.2 verbiage to reflect current MOC process terminology Clarified supplier assessment in 17.2.1.5	Update to reflect current practice and clarify verbiage for an internal and external audience.

NOTICE

This document is proprietary and its contents are the exclusive property of Entegris, Inc. This document may not be reproduced in any form whatsoever, without prior written permission from Entegris, Inc. This document is not controlled when printed.