

Martha “Marty” Brandt

Beverly, MA | 617.335.2638 | martywbrandt@comcast.net | <https://www.linkedin.com/in/martha-brandt-284a122b/>

A top-performing Senior Quality Engineer and Compliance Manager credited with savings through process improvement and innovative technique development.

Strong expertise in collaboration to ensure regulatory compliance, streamlined communication, and improve workflow.

Highly accomplished in implementing company-wide manufacturing/PEC software package and order maintenance and production scheduling programs.

Areas of Expertise

- Strategic Planning/Analysis
- Process Improvement
- Environmental Compliance/Regulations
- Regulatory and Quality Management System Audit Training
- Project Management
- Quality Assurance
- Program Management

Education

Special Graduate Student at MIT, Materials Science
Bachelor of Science, Geology

Cambridge, MA,
Bates College, Lewiston, ME

Work History

Analog Devices, Inc <i>Responsible Minerals Program Manager</i>	2023 – 2025 Wilmington, MA
Littelfuse, Inc. <i>Multiple positions including Global Quality Management System, Product Environmental Compliance Staff, Product Environmental Compliance Technical Program Manager, Senior Quality Engineer, and Compliance Program Manager</i>	2008 - 2023 Beverly, MA
Hi-Tech Medical/Hi-Tech Duravent <i>Multiple positions including Quality Manager, Environmental Management Representative, and Safety Champion</i>	2007-2008 Georgetown, MA
Crystal Systems, Inc. <i>Project Leader Process/Quality Control</i>	2003 – 2005 Salem, MA

Related Training

- 6 Sigma Greenbelt Certification
- LEAN 6 Sigma Certification
- ARAS/PRISM Training, Assent Compliance PEC Training
- IATF Internal Auditor Training
- ESD Four Day Workshop, Best Practices for CDM and Class 0 – Including Advanced Measurements
- 8D Structured Problem-Solving Workshop
- ISO14001:2015 Internal Auditing Workshop
- ISO9001:2015 Internal Auditing, Transition, and Implementing Workshop
- Introduction to Statgraphics Plus for Windows, Manugistics seminar
- Techniques for Surface Analysis, American Vacuum Society short course
- International Scientific Instruments (ISI), SEM short course
- Quantitative Metallography Seminar, Academy for Metals and Materials, Georgia Institute of Technology
- X-ray Microanalysis and Advanced Digital Imaging
- SEM and X-ray Microanalysis Theory and Practice- Materials Science Seminar and continuing education credit
- Trace Elemental and Surface Analysis
- FMEA, SPC Two Day Workshops

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Tools Used

- Microsoft Office suite including SharePoint, Excel, Word, and PowerPoint
- Oracle/SAP/Assent Compliance/APA Engineering

Current and Past Affiliations

- Institute of Electrical and Electronics Engineers (IEEE), Boston Reliability Chapter
- American Society for Engineering Education (ASEE)
- Quality Support Group (QSG), American Society for Quality (ASQ)
- ADI WLN Women’s Leadership Network and Mentor Program 2023 - 2025
- Women in Electronics member
- AIAG member
- American Society for Metals (ASM) American Vacuum Society (AVS)
- Littelfuse WIN (Women’s Initiative Network) member, Mentor Program and Leadership Training

Experience

Responsible Minerals and PEC Compliance Management

- Manage and improve the overall responsible mineral sourcing processes to support compliant and responsible sourcing of critical minerals.
- Lead mineral sourcing improvement initiatives across internal groups such as Engineering, Quality, Legal and Procurement.
- Engage with suppliers on dynamic smelter status changes, forward-looking risk assessments, new vendor/material approval.
- Engage with customers on Exception Minerals or Reporting Template inquiries.
- Engage with RMI and participate with internal Responsible Mineral Procedural and Policy updates.
- Created regulatory awareness and scope applicability.
- Maintain Risk Assessment Strategy (Material, Mineral, Smelter) and Smelter Analytics, Outreach and Metrics.
- Responsible for leading programs which support product regulatory compliance related to chemicals and materials covered by US-TSCA, US-EPA, Ca Prop 65, EU-WFD, ECHA, Conflict Minerals and other similar USA, EU, and other Governmental regulations and provide guidance to company’s Business Units, Quality & Operations and oversees planning and execution to achieve best-in-class performance.
- Partnered with outside regulatory inspectors (UL, TUV, VDE, FDA) and excelled in the role of Product Environmental Compliance SME for RoHS10, REACH 247 SVHC Initiative, Conflict Minerals, Japanese chemSHERPA, Full Material Declarations including IPC 1752-2, IMDS (International Materials Data System) ISO 10993-5 Biocompatibility/ Cytotoxicity Studies documenting findings and creating and maintaining reports, establishing and communicating goals for quality and track performance.
- Support annual SEC Form SD and CM Report filing.
- Developed and implemented systems and procedures for PEC that applies to company’s products, operations, and businesses.
- Researched ways to automate PEC certifications working closely with third-parties, users, and company’s IT resources. Manage any third-party providers or consultants.
- Developed strategies that optimize the use of resources to achieve compliance and deploy action plans to achieve results to the Global PEC objectives.
- Managed global support services and tools needed for the PEC programs and leader for the Global PEC JET monthly meetings.
- Created dashboard for reporting for REACH, EU-WFD, RoHS, FMD, IPC 1752-2 FMD, ICP (SGS, Intertek third party test reports), CA Prop 65, Montreal Protocol, Conflict Minerals, and TSCA.
- Provided periodic updates to the company’s Global Operations and Services, business units and plants.
- Extrapolated and provided report data for SEC yearly or quarterly reporting for external bodies or agencies.
- Ensured compliance with current and future product environmental requirements that apply to chemicals or substances, directly or indirectly used by the company’s products.
- Continuously analyzed information gathered from product regulatory authorities and third-party consultants to assess applicability and risks to company’s products and processes.
- Supported the PEC Environmental Team based overseas.
- Supported product environmental compliance implementation by local plant operations.

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Development

- Improved process for producing Ti:Sapphire laser rods from crystal boules by developing an in-depth understanding of current process and implementing necessary changes resulting in a 35% sales increase.
- Improved RCA cleaning techniques and executed DOE for alternative cleaning chemistry JTB100, maintaining process flow for all aspects of the production wafer FAB facility, initiating spreadsheet reports to track Raw Wafer Material Inventory, Customer Supplied Inventory, Finished Goods Inventory and production work in process (WIP).
- Improved SEC Conflict Mineral Report Template filing for all ADI suppliers from 65% conformance in 2022 to 97% conformance in 2023.
- Created Product Environmental Compliance tracking system for monthly, quarterly, and yearly performance for 892 devices at the company.
- Improved SEC Conflict Mineral Report Template filing for all company's suppliers (2052) from 68% conformance in 2021 to 92% conformance in 2022.
- Created an innovative cross-sectioning technique which saved \$35K in the first year of operation by increasing efficiency through drastic reduction in sample prep time while significantly increasing yield.

Quality

- Managed Quality Assurance System including Product Planning Control, Product Design Control, and all facets of Production Quality Control, BOM analysis, verifying adherence to strict company's principles by spearheading a cross-functional team.
- Maintained document control for reliability/qualification testing including set-up and developing reliability testing travelers, qualification log/matrix and writing/presenting all associated reports to satisfy new product releases.
- Initiated a rigorous qualification plan and program to satisfy AEC-Q101 Section 4 REV D Automotive Qualification Standard and the AEC Q100 Automotive Qualification Standard.
- Supported customers through close interaction during equipment performance demonstration of the Apogee vertical furnace and provided support with horizontal systems in the field.
- Maintained and authorized all external and internal Corrective and Preventative Action (CAPA) reports.
- Maintained new product qualification and existing process/product changes via reliability evaluations based on the methods and conditions outlined in recognized JEDEC and MILSTD industry standards.
- Cataloged and defined full material declarations for entire company's device families and maintained part analysis within the IMDS (International Material Data System) used in the automotive industry.

Management

- Managed Quality Assurance System including Product Planning Control, Product Design Control, and all facets of Production Quality Control, BOM analysis.
- Maintained document control for reliability/qualification testing including set-up and developing reliability testing travelers, qualification log/matrix and writing/presenting all associated reports to satisfy new product releases.
- Initiated a rigorous qualification plan and program to satisfy AEC-Q101 Section 4 REV D Automotive Qualification Standard and the AEC Q100 Automotive Qualification Standard.
- Project Leader 6 Sigma Greenbelt Certification project
- Served as Management Representative for ISO 9001:2008, ISO 9001:2015 (Quality Management System) and ISO 14001:2004, ISO 14001:2015 (Environmental Management System).
- Maintained and authorized all external and internal Corrective and Preventative Action (CAPA) reports.
- Maintained new product qualification and existing process/product changes via reliability evaluations based on the methods and conditions outlined in recognized JEDEC and MILSTD industry standards.
- Cataloged and defined full material declarations for entire company's device families and maintained part analysis within the IMDS (International Material Data System) used in the automotive industry.
- Verified adherence to strict company's principles by spearheading a cross-functional team.
- Collaborated with engineering to produce characteristics data for capability studies, SPC, DOE and Gage R&R while managed all aspects of Quality Assurance (QA) lab including training to ensure products meet company, customer and regulatory standards.