



Toray Composite Materials America, Inc.

CMA-MAN-0004 Quality Manual (QM), Rev. 05



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Toray Composite Materials America, Inc. (Toray CMA) began producing advanced composite materials in 1992 in Tacoma, WA. First used on the Boeing 777, Toray's advanced carbon fiber composite materials are now incorporated into the 777 and 787 primary and secondary structures.

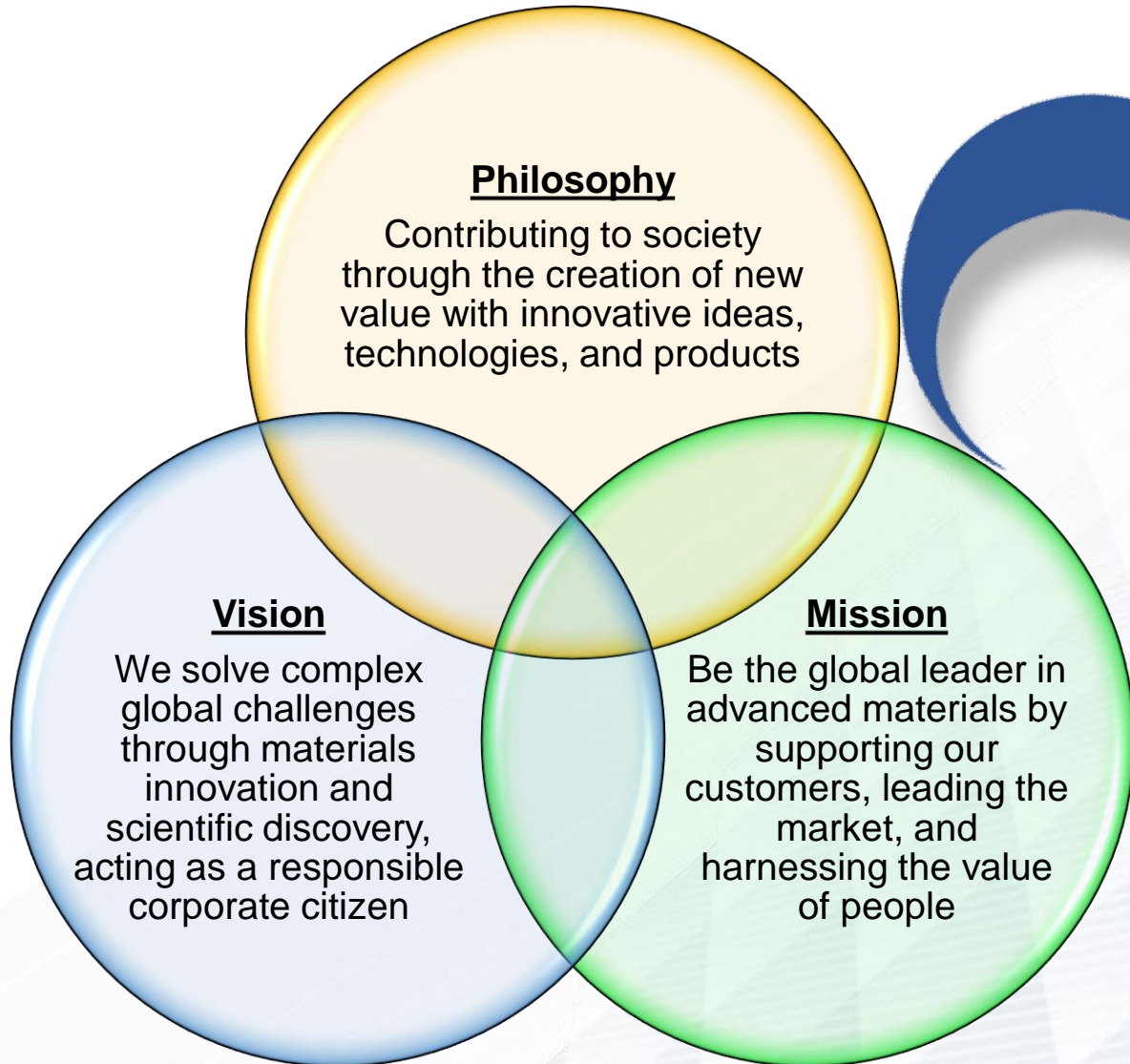
In 1997, Toray CMA's Decatur plant was established. Today, the plant operates production lines from precursor to carbon fiber, producing Standard Modulus [SM], Intermediate Modulus [IM] and Intermediate Modulus (+) [IM+] fibers. Toray CMA's newest plant in Spartanburg, South Carolina, produces precursor, carbon fiber, and prepreg in a single manufacturing facility. This plant provides critical supply chain redundancy and diversification.

All three plants supply a diverse customer base, both domestically and internationally, in aerospace, industrial, and automotive markets.



With a nationwide footprint, CMA is building on its success by utilizing the collective knowledge and expertise of a diverse workforce, becoming nimbler and more responsive to customers' needs by centrally managing production facilities.

Gaining capability across product lines allows CMA to increase customer value, shorten time to market, and strengthen critical relationships.



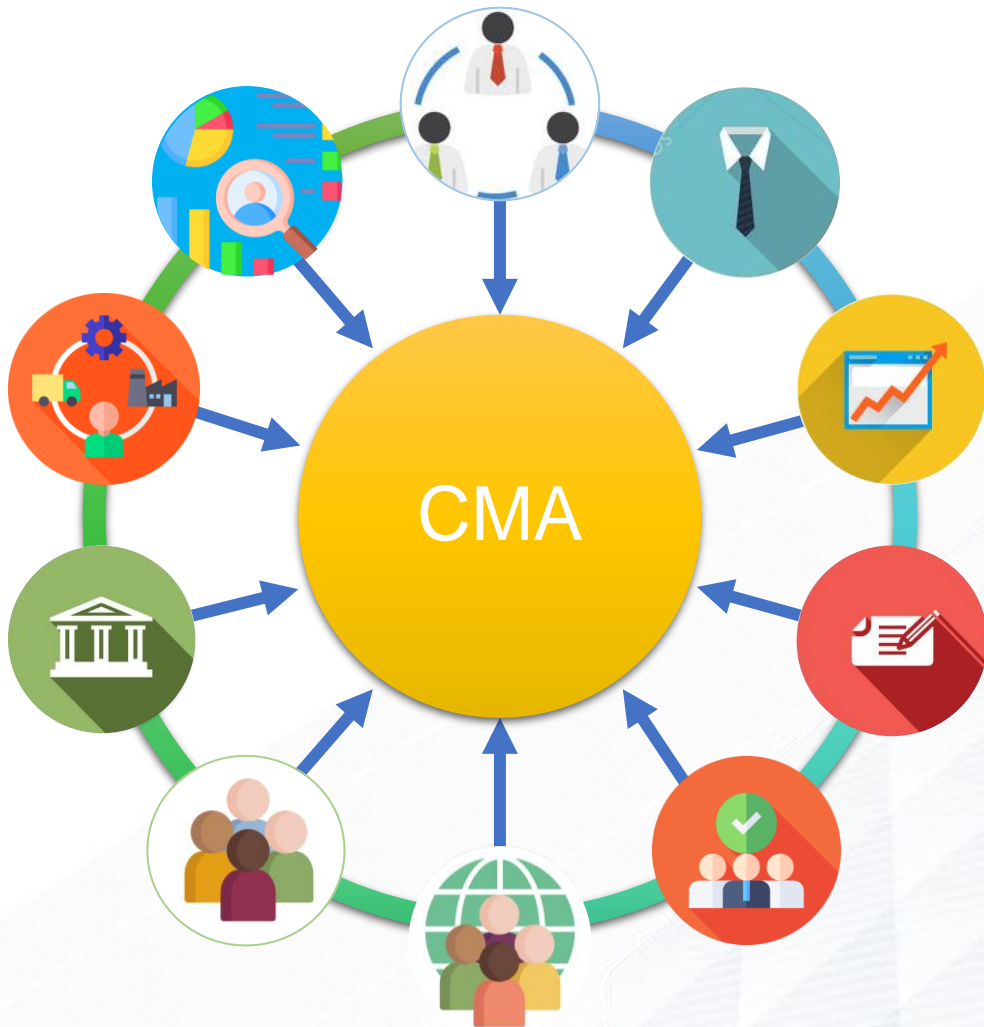
GUIDING PRINCIPLES

- Safety first, safety always
- Unrivalled product quality
- Uncompromising integrity
- Treating each other with respect and dignity
- Superior customer service
- Demonstrating Corporate Social Responsibility (CSR)
- Fiscally responsible and value-driven
- Continuous improvement
- Developing and maximizing one's talent
- Improving yourself (by self-criticize) rather than criticizing others

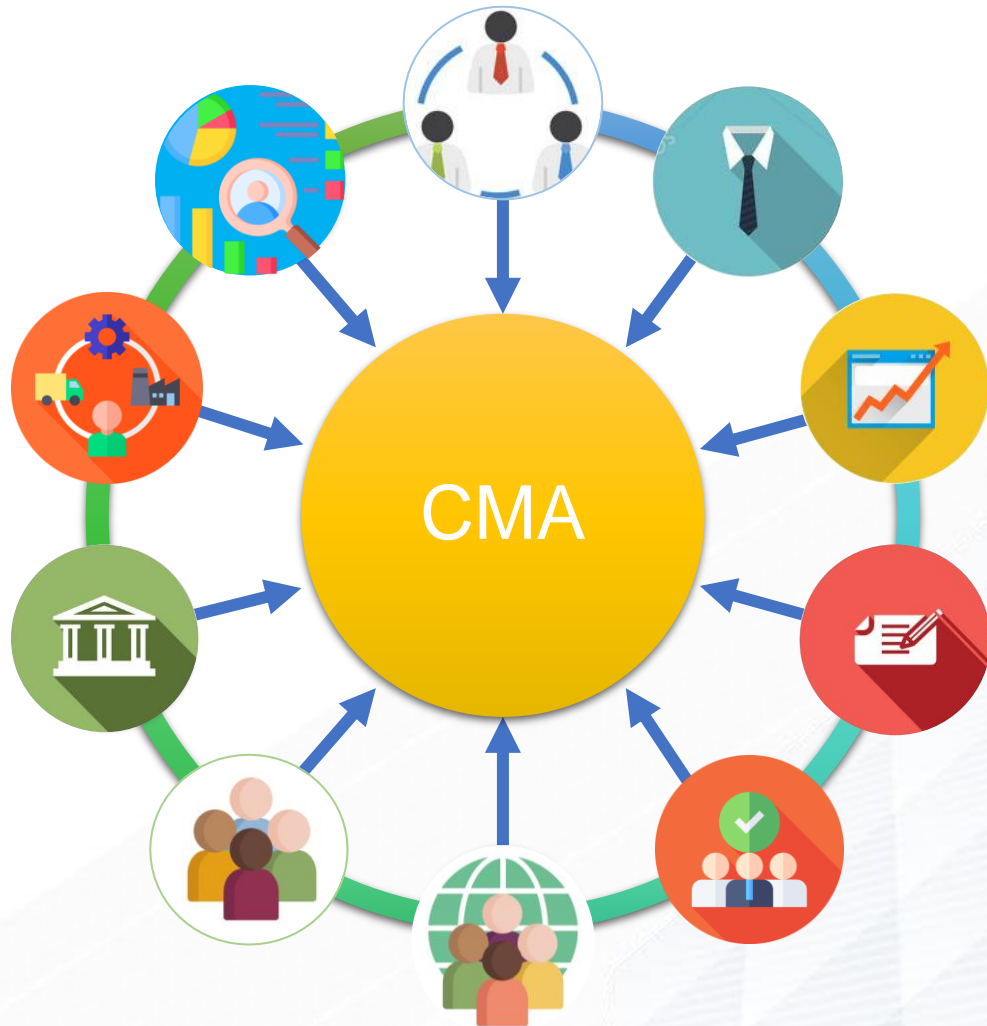
Toray Composite Materials America, Inc., will strive to provide the highest quality products with innovative technology that meet our customer, statutory, and regulatory requirements with emphasis on continuous process improvements.

PRINCIPLES OF CMA'S QUALITY POLICY

Safety	<ul style="list-style-type: none">• Provide safe products and work environment
Commitment	<ul style="list-style-type: none">• Comply with customer, statutory, and regulatory requirements
Innovation	<ul style="list-style-type: none">• Innovation in our customer service, products, and processes
Integrity	<ul style="list-style-type: none">• Manifest in all aspects of our company activities
Establish	<ul style="list-style-type: none">• Annually review quality objectives
Continuous Improvement	<ul style="list-style-type: none">• Continually improve customer service, products, and processes
Motivation	<ul style="list-style-type: none">• To encourage our employees to become involved and to proudly take ownership of their work

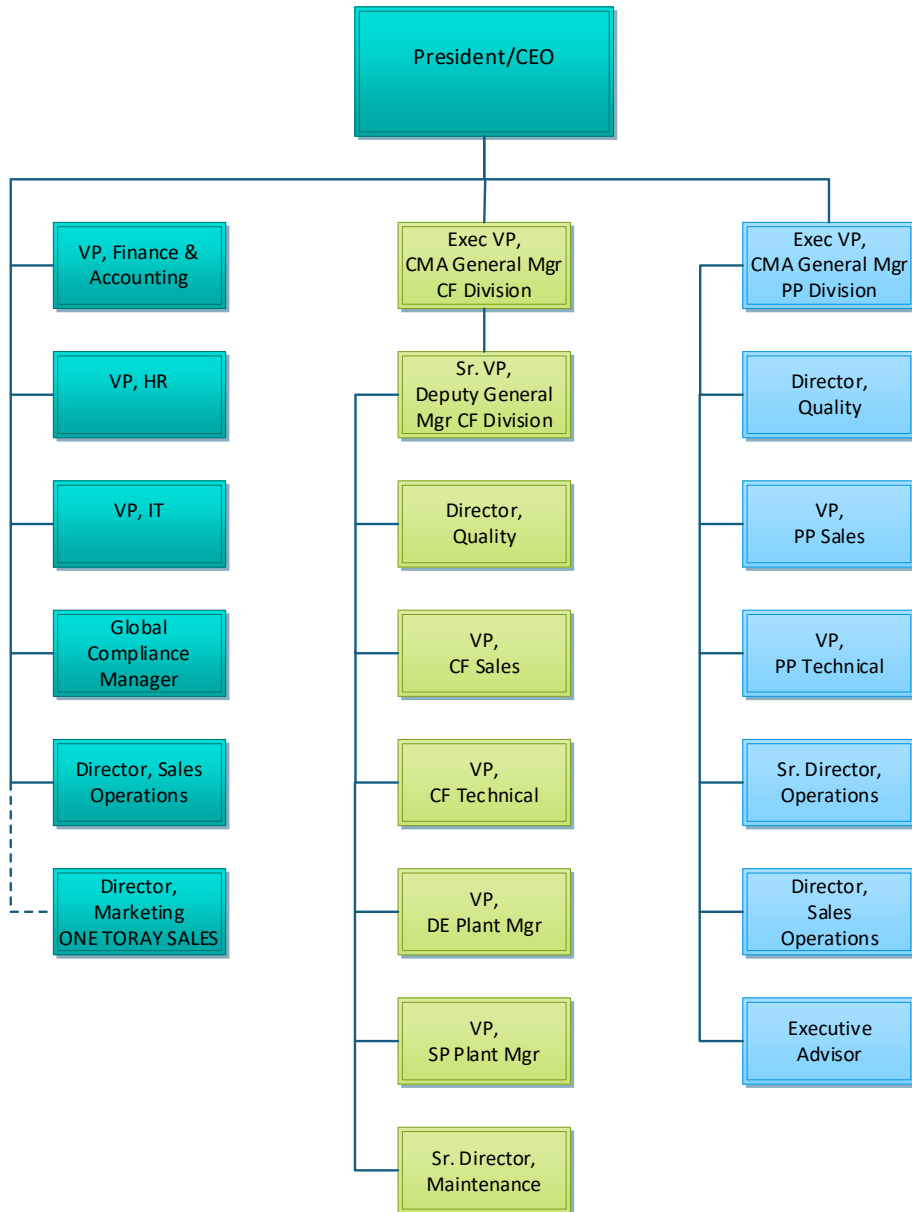


<i>Interested Parties</i>	<i>Expectations from Interested Parties</i>	<i>Key Activities</i>
Employees	Safe work environment with access to benefits and career development	5S, Sail Program, Annual Wage and Benefit Survey, Ethics Policy, Employee Opinion Survey, Training
Leadership	Set vision for Toray CMA Prepreg production and achieve KPIs or develop action plans to meet KPIs and communicate company results	X- Matrix, Management Review, Key Measures and KPIs, All Hands Meetings, Daily dept. meetings
Stakeholders	Profitable, Growth in the Market	Toray HQ, Financial Reports
Insurance	Profitable, Stable business , Low risk and minimum liabilities, fewer claims	Consistent policies, internal polices like safety, quality , and environmental polices and practices
Customers	Provide high quality, innovative products that meet or exceed customer expectations	Annual Customer Survey, OTD monthly tracking, Customer Complaint KPI, Maintain AS9100, NADCAP accreditation where applicable, Technical Transfer of new Technology, Customer Specification Registration, Changing Markets, Forecasting Demand, Expanding Markets (Aerospace, Defense, Sporting Good, Industrial and Automotive)



<i>Interested Parties</i>	<i>Expectations from Interested Parties</i>	<i>Key Activities</i>
Society	Corporate Ethics	Corporate Social Responsibility, Environmental Aspects, Maintain ISO14001 certification
Community / Non-Governmental	Reputational Risks, Corporate Social Responsibility, Community Relations	United Way Campaign; FACEs Christmas campaign; Local Food drives
Regulatory	Regulatory Constraints and Compliance	EHS Internal Audits and Report; Financial audits and reporting
Supply Chain	Availability, Forecasting	SIOP Meetings; Global Operations
Competitors	Competitive Advantage, Disruptive Technology	Technical Center Testing

LEADERSHIP RESPONSIBILITY & ORGANIZATION CHART - CMA

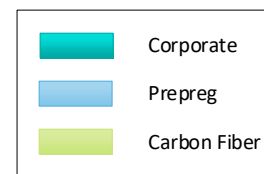


CMA Leadership is responsible for implementing the Quality Management System consistently throughout their site location.

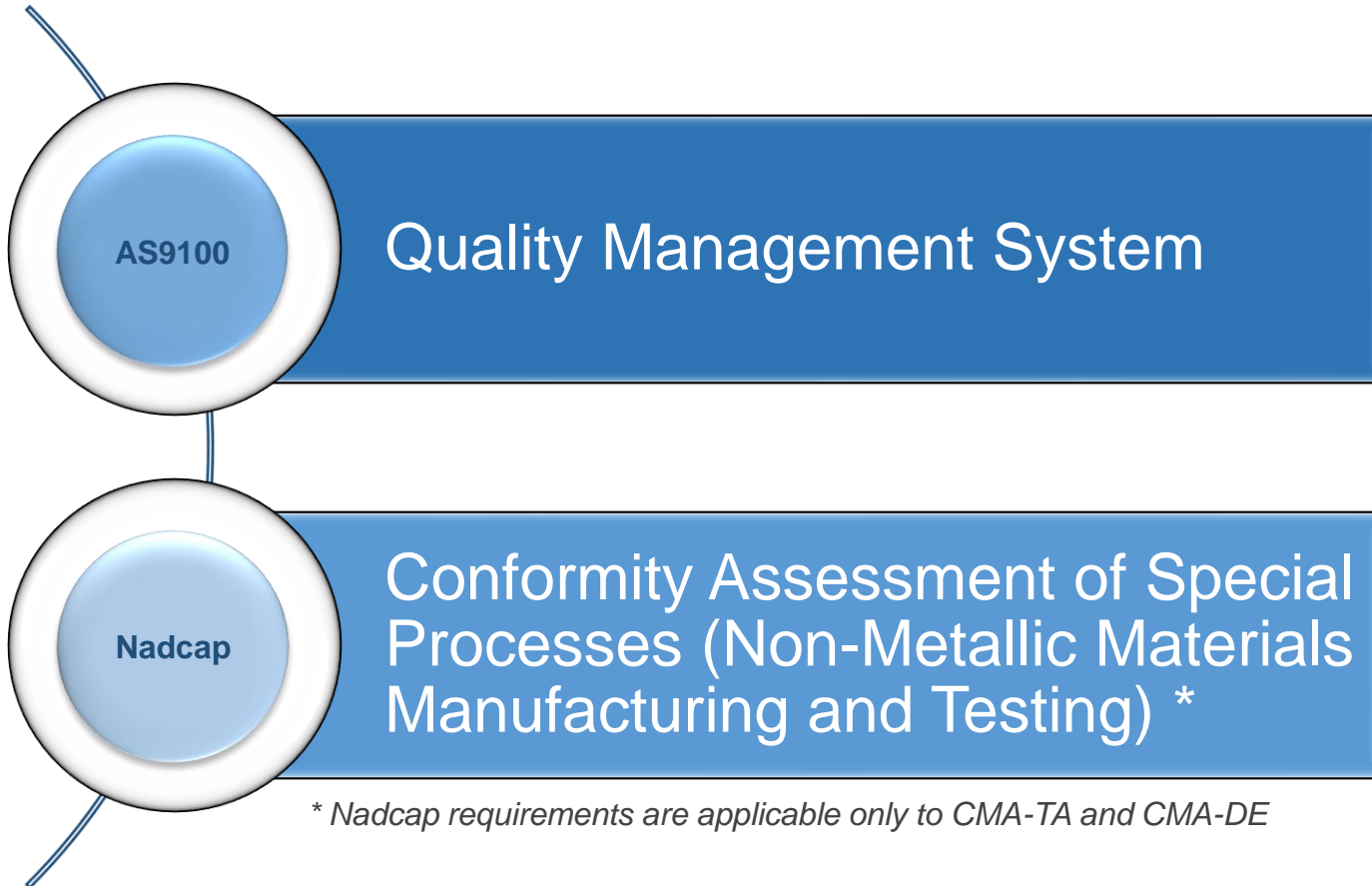
CMA Associates are responsible for working in accordance with the Management System processes and requirements within their site. Responsibilities for specific activities are detailed within the site specific QMS documentation.

Quality Management Representative: *The Directors of Quality Assurance for Carbon Fiber and Prepreg have been appointed as Quality Management Representatives for their respective divisions by the Division General Managers.*

Escalation: *Quality Management System actions where timely and/or effective results are not achieved will be escalated to Top Management.*



The design and development of Prepreg (composite material), and the manufacture and sale of Prepreg (composite material) and Polyacrylonitrile Fiber and Carbon Fiber for Aviation, Space, Sports, and Industrial Applications.



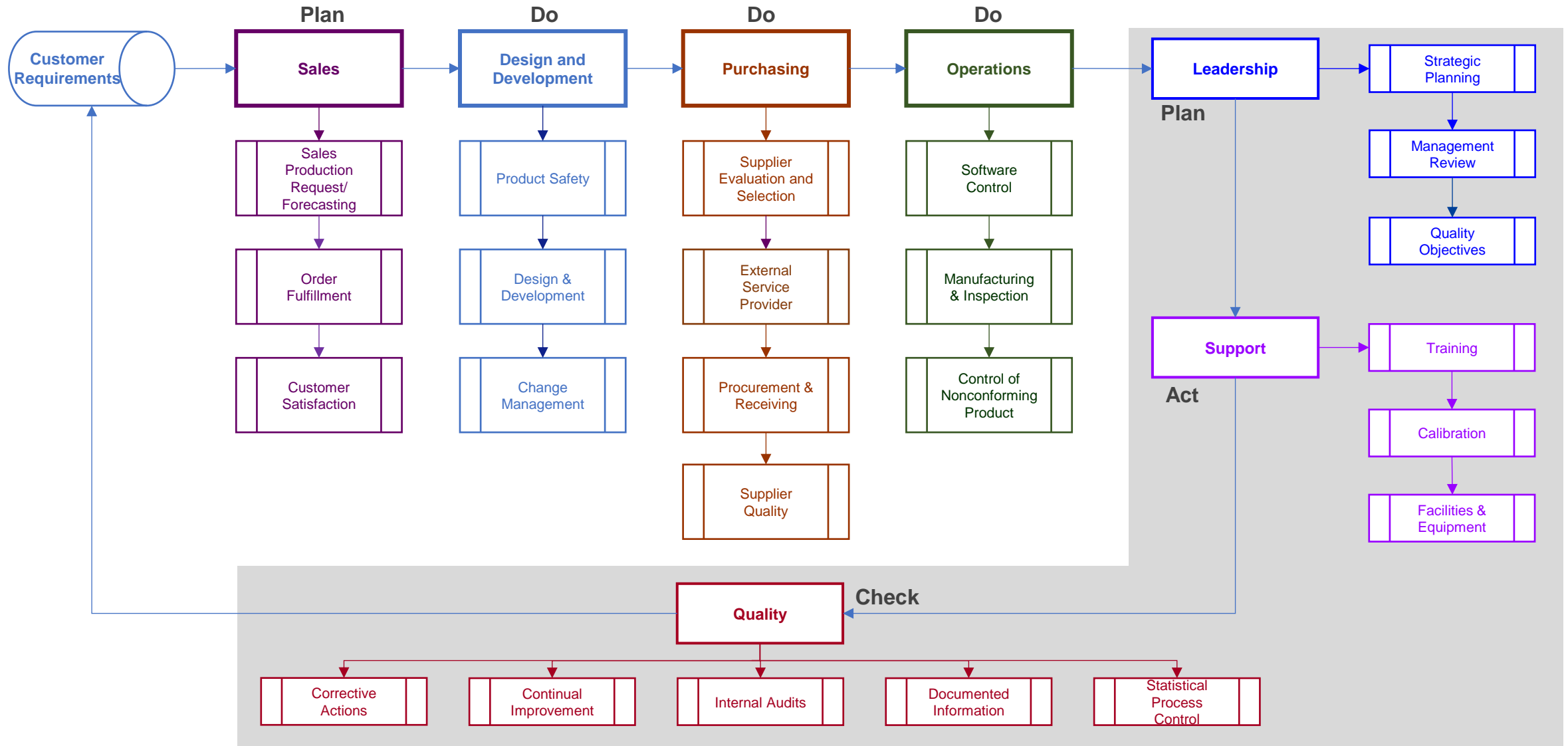
** Nadcap requirements are applicable only to CMA-TA and CMA-DE*

The following AS9100 requirements are not applicable:

- *8.5.5 – Toray CMA does not provide post-delivery activities pertaining to:*
 - *Collection and analysis of in-service data*
 - *Control, updating, and provision of technical documentation relating to product use, maintenance, repair, and overhaul*
 - *Controls required for work undertaken external to the organization*
 - *Product/customer support pertaining to training, warranties, etc.*
- *8.5.3 – Customer property is limited to customer intellectual property in the form of specifications*



QMS PROCESS INTERACTION



QMS PROCESS RESPONSIBILITY

CMA Process	Associated Procedures	AS9100D Clause(s)	Responsibility	CMA-TA	CMA-DE	CMA-SP	CMA-DA	CMA-PY
CMA Quality Manual	CMA-MAN-0004	4.4 - Quality Management System	Director(s), QA	X	X	X	X	X
Leadership	CMA-MAN-0004 CMA-PROC-0054	5 - Leadership	President/CEO EVP, General Mgr(s) Director(s), QA	X	X	X		
		5.1 - Leadership and Commitment						
		5.2 - Policy						
		5.3 - Organizational Roles, Responsibilities, and Authorities						
		9.1 - Monitoring, Measurement, Analysis, and Evaluation						
	9.3 - Management Review							
CMA-PROC-0004	6 - Planning							
	6.1 - Action to address risk and opportunities							
	6.2 - Quality objectives and planning to achieve them							
	6.3 - Planning of changes							
Support	CMA-PROC-0051 TA-PROC-0041 CMA-PROC-0033	7.1 - Resource	VP, HR Director(s), QA	X	X	X	X	X
		7.1.1 General						
		7.1.2 People						
		7.1.6 Organizational Knowledge						
		7.2 - Competence						
		7.3 - Awareness						
		7.4 - Communication						
	CMA-PROC-0048 CMA-PROC-0064	7.1.3 Infrastructure	VP, IT	X	X	X	X	X
		CMA-PROC-0076 CMA-PROC-0047	7.1.4 Environment for the Operation of Processes	Sr. Dir., Maintenance Director, Maintenance	X	X	X	
	7.1.5 - Monitoring and Measuring Resources							
7.1.5.1 - General								
Quality	CMA-PROC-0034 CMA-PROC-0038	7.5 - Documented Information	Director(s), QA	X	X	X	X	X
		7.5.1 - General						
		7.5.2 - Creating and Updating						
		7.5.3 - Control of Documented Information						
	CMA-PROC-0032	9.2 - Internal Audit						
	CMA-PROC-0035 CMA-PROC-0037 CMA-PROC-0065	10 - Improvement						
10.1 - General								
10.2 - Nonconformity and Corrective Action								
10.3 - Continual Improvement								

QMS PROCESS RESPONSIBILITY (continued)

CMA Process	Associated Procedures	AS9100D Clause(s)	Responsibility	CMA-TA	CMA-DE	CMA-SP	CMA-DA	CMA-PY
Sales	CMA-PROC-0061 TA-PROC-0043	8.6 - Release of Products and Services	VP(s), Sales Director(s), QA	X	X	X	X	X
	CMA-PROC-0044	9.1.2 - Customer Satisfaction	VP(s), Sales	X	X	X	X	
Design and Development	CMA-PROC-0031	8.1.2 - Configuration Management	VP(s), Technical	X	X	X		
	CMA-PROC-0005	8.1.3 - Product Safety		X	X	X		
	CMA-PROC-0072 TA-PROC-0103	8.2 - Requirements for production and Service 8.3 - Design and Development of Products and Service		X X	X	X	X	
Purchasing	CMA-PROC-0042 CMA-PROC-0055 TA-WI-0660	8.4 - Control of Externally Provided Processes, Products, and Services	Director, Supply Chain Manager, Procurement VP(s), Technical Director(s), QA	X	X	X	X	X
Operations	CORP-PROC-0001 CORP-PROC-0023 TA-PROC-0027	8.1 - Operational Planning and Control 8.1.1 - Operational Risk Management	EVP, General Mgr(s)	X X	X X	X X		
	CMA-PROC-0035	8.1.4 - Prevention of Counterfeit Parts	Director, Supply Chain Manager, Purchasing EVP, General Mgr(s)	X	X	X		X
	CORP-PROC-0001 CORP-PROC-0023 TA-PROC-0027 CORP-PROC-0031 TA-PROC-0047	8.5 - Production and Service Provision 8.5.1 - Control of Production and Service Provision	EVP, General Mgr(s) Director(s), QA	X	X	X		X
	CORP-PROC-0014 TA-PROC-0137	8.5.3 - Property belonging to customer or external providers 8.5.4 - Preservation 8.5.5 - Post Delivery Activities 8.5.6 - Control of Changes	EVP, General Mgr(s)	X	X	X		X
	TA-PROC-0041 CORP-PROC-0028	8.5.2 - Identification and Traceability	Director(s), QA	X	X	X		X
	CMA-PROC-0061 TA-PROC-0043	8.6 - Release of Products and Services	VP(s), Sales Director(s), QA	X	X	X	X	X
	CMA-PROC-0035	8.7 - Control of Nonconforming Output	EVP, General Mgr(s) Director(s), QA	X	X	X		X