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1 Scope	1 Scope
4 Quality management system	4.3 Determining the scope of the quality management system
	4 Context of the organization
	4.1 Understanding the organization and its context
	4.2 Understanding the needs and expectations of interested parties
	4.4 Quality management system and its processes
4.1 General requirements	4.4 Quality management system and its processes
	8.1.1 Planning for the outsourcing or transfer of processes
	8.4 Control of externally provided processes, products and services
4.2 Documentation requirements	7.5 Documented information
4.2.1 General	7.5.1 General
4.2.2 Quality manual	4.3 Determining the scope of the quality management system
	7.5.1 General
	4.4.3 Quality management system and its processes — Supplemental
	4.4 Quality management system and its Processes
4.2.3 Control of documents	7.5.2 Creating and updating
	7.5.3 Control of documented Information
4.2.4 Control of records	7.5.2 Creating and updating
	7.5.3 Control of documented Information
4.3 Knowledge Management	7.1.6 Organizational knowledge
4.4 Management of multisite project	8.1.1 Planning for the outsourcing or transfer of processes
5 Management responsibility	5 Leadership
5.1 Management commitment	5.1 Leadership and commitment
	5.1.1 General
5.2 Customer focus	5.1.2 Customer focus
5.3 Quality policy	5.2 Policy
	5.2.1 Establishing the Quality policy
	5.2.2 Communicating the Quality policy



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	5.2.3- Quality Policy supplemental
	5.2.4- Safety policy
5.3.1 Business Plan	6.4 Business planning
5.4 Planning	6 Planning
5.4.1 Quality objectives	6.2 Quality objectives and planning to achieve them
5.4.2 Quality management system planning	4.4 Quality management system and its processes
5.5 Responsibility, authority and communication	5 Leadership
5.5.1 Responsibility and authority	5.3 Organizational roles, responsibilities and authorities
5.5.2 Management representative	5.3 Organizational roles, responsibilities and authorities
5.5.3 Internal communication	7.4 Communication
5.5.4 Customer Relationship Management	5.1.4 Customer Focus
5.6 Management review	9.3 Management review
5.6.1 General	9.3.1 General, 9.3.1.1- General supplemental
5.6.2 Review input	9.3.2 & 9.3.2.1 Management review input
5.6.3 Review output	9.3.3 & 9.3.3.1 Management review output
6 Resource management	7 Support
	7.1 Resources
6.1 Provision of resources	7.1.1 & 7.1.1.1 General
	7.1.2 People
6.2 Human resources	7.2 & 7.2.1 Competence
6.2.1 General	7.2 & 7.2.1 Competence
6.2.2 Competence, training and awareness	7.2 & 7.2.1 Competence
	7.3 & 7.3.1 Awareness
6.2.2.1 Product Design Skills	7.2 & 7.2.1 Competence
6.2.2.1 Employee motivation and empowerment	5.1 Leadership and commitment
6.2.2.3 Training	7.2 & 7.2.1 Competence
	9.2.3.2 Auditors management
6.2.2.4 Performance management	
6.3 Infrastructure	7.1.3 Infrastructure
6.4 Work environment	7.1.4 Environment for the operation of processes
6.5 Contingency Planning	6.1.4 Contingency planning
7 Product realization	8 Operation



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7.1 Planning of product realization	8.1 Operational planning and control
7.2 Customer-related processes	8.2 Requirements for products and services
7.2.1 Determination of requirements related to the product	8.2.2 & 8.2.2.1 Determination of requirements related to products and services
7.2.2 Review of requirements related to the product	8.2.3 Review of requirements related to products and services
	8.2.5 requirements of products and service
	8.2.4 Changes to requirements for products and services
7.2.3 Customer communication	8.2.1 Customer communication
7.2.4 Tender Management	8.1.2 Tender Management
7.3 Design and development	8.3 Design and development of products and services
7.3.1 Design and development planning	8.3.1 & 8.3.1.1 General
	8.3.2 Design and development planning
	8.3.2.1 Design and development planning
7.3.2 Design and development inputs	8.3.3 & 8.3.3.1 Design and development Inputs
7.3.3 Design and development outputs	8.3.5 & 8.3.5.1 Design and development outputs
7.3.4 Design and development review	8.3.4 & 8.3.4.1 Design and development controls
	8.3.4.2- Design Review
7.3.5 Design and development verification	8.3.4.3 Design verification
7.3.6 Design and development validation	8.3.4.4 Design validation
7.3.7 Control of design and development changes	8.3.6 Design and development changes
	8.5.6 Control of changes
7.3.8 Design Approval	8.3.4.4 Design validation
7.4 Purchasing	8.4 Control of externally provided processes, products and services
7.4.1 Purchasing process	8.4 Control of externally provided processes, products and services
	8.4.1 & 8.4.1.1 General
	8.4.1.1.1 Classification of external providers and external provided products, process or service
	8.4.1.1.2 Evaluation of external providers
	8.4.1.1.3 Approval of external providers
	8.4.1.1.4 External provider offer selection
	8.4.2 Type and extent of control
7.4.2 Purchasing information	8.4.3 & 8.4.3.1 Information for external providers
7.4.3 Verification of purchased product	8.4.2 Type and extent of control



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	8.4.2.1 External provided products, process or service approval of release
	8.4.2.2 External provided products, process or service verification after release
	8.4.2.3 Monitoring of external provider performance, re-evaluation and ranking
	8.4.3 Information for external providers
	8.6 Release of products and services
7.4.4 Supply Chain Management	8.4.4 Supply Chain Management
7.5 Production and service provision	8.5 Production and service provision
7.5.1 Control of production and service provision	8.5.1 & 8.5.1.1 Control of production and service provision
	8.5.1.1.1 Controlled conditions
	8.5.1.1.2 Verification of the process for production and service provision
	8.5.1.1.3 Validation of the process for production and service provision
	8.5.5 Post-delivery activities
7.5.1.1 Production scheduling	8.5.7 Production scheduling
7.5.1.2 Production documentation	8.5.1.1.1 Controlled conditions
7.5.1.3 Control of production process changes	8.5.6 Control of changes
7.5.1.4 Control of equipment's and tools	8.5.1.3 Production equipment's
7.5.2 Validation of processes for production and service provision	8.5.1 Control of production and service provision
	8.5.1.1.2 Verification of the process for production and service provision
	8.5.1.1.3 Validation of the process for production and service provision
	8.5.1.2 Special processes
7.5.3 Identification and traceability	8.5.2 & 8.5.2.1 Identification and traceability
7.5.4 Customer property	8.5.3 & 8.5.3.1 Property belonging to customers or external providers
7.5.5 Preservation of product	8.5.4 & 8.5.4.1 Preservation
7.6 Control of monitoring and measuring equipment	7.1.5 Monitoring and measuring resources
	7.1.5.1 General
	7.1.5.2 Measurement traceability
	7.1.5.3 Monitoring and measuring resources
7.7 Project Management	8.1.3 Project management
7.7.1 Integration Management	8.1.3.1 Project integration management



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7.7.2 Scope Management	8.1.3.2 Project scope management
7.7.3 Time Management	8.1.3.3 Project time management
7.7.4 Cost management	8.1.3.4 Project cost management
7.7.5 Quality Management	8.1.3.5 Project quality management
7.7.6 Human Resources management	8.1.3.6 Project human resource management
7.7.7 Communication Management	8.1.3.7 Project communications management
7.7.8 Risk & opportunity Management	8.1.3.8 Project risk and opportunity management
	8.1.3.9 Project procurement management
7.8 Configurations Management	8.1.4 Configuration management
7.9 First Article management	8.9 First Article management
7.10 Commissioning / Customer Services	
7.11 RAMS/LCC	8.8 RAMS / LCC
7.12 Obsolescence Management	8.10 Obsolescence Management
7.13 Control of changes	8.1.5 Change management
8 Measurement, analysis and improvement	9 Performance evaluation
8.1 General	9.1 Monitoring, measurement, analysis and evaluation
8.2 Monitoring and measurement	9.1.1 General
	9.1 Monitoring, measurement, analysis and evaluation
	9.1.1.1 General
8.2.1 Customer satisfaction	9.1.2 & 9.1.2.1 Customer satisfaction
8.2.2 Internal audit	9.2 Internal audit
	9.2.3 Internal Audit
	9.2.3.1 Audit Programme
	9.2.3.2 Auditors management
8.2.3 Monitoring and measurement of processes	9.1.1.1 General
8.2.4 Monitoring and measurement of product	8.6 Release of products and services
8.3 Control of nonconforming product	8.7 & 8.7.3 Control of nonconforming outputs
	10.2 & 10.2.3 Nonconformity and corrective action
8.3.2 Customer Concession	8.1.3.7 Project communications management
	8.6.1 Release of products and services — Supplemental
	8.1.5 Change management
8.4 Analysis of data	9.1.3 & 9.1.3.1 Analysis and evaluation

 USL INTERNATIONAL QUALITY SERVICES <small>Quality Solutions to Enhance Customer Confidence</small>	IRIS Rev 2 Vs ISO 22163:2017 Correlation Matrix	USL International Quality Solutions Consultancy Services for ISO, IRIS, AS, IATF
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8.5 Improvement	10 Improvement
8.5.1 Continual improvement	10.1 General 10.3 Continual Improvement
8.5.2 Corrective action	10.2 & 10.2.3 Nonconformity and corrective action
8.5.3 Preventive action	6.1 Actions to address risks and opportunities (see 6.1.1, 6.1.2) 10.3 Continual Improvement