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1.4.1	Suppliers PA Compliance	NEIN		
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1.6.2	Referenced Documents	NEIN		
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2.1.1.1	Organization	NEIN		
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2.1.1.2	Responsibility and Authority	NEIN		
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2.1.1.3	Resources	NEIN		
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2.1.2	PA Management Interfaces	NEIN		
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С		NEIN	JA	20.03.2025
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2.1.3	PA Plan	NEIN		
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b		NEIN	JA	20.03.2025
С		NEIN	JA	20.03.2025
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2.2	PA Programme	NEIN		
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2.2.1	Product Assurance	NEIN		
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b		NEIN	JA	20.03.2025
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d		NEIN	JA	20.03.2025
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n		NEIN	JA	20.03.2025
2.2.2	PA Reporting	NEIN		
а		NEIN	JA	20.03.2025
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2.2.3	Project PA Audits	NEIN		
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2.2.5	Documentation and Data Control	NEIN		
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С		NEIN	JA	20.03.2025
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2.2.6	Quality Records	NEIN		

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2.2.7	Configuration Management	NEIN		
а		NEIN	JA	20.03.2025
b		NEIN	JA	20.03.2025
2.2.8	Nonconformance Control	NEIN		
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2.2.9	Management of Alerts	NEIN		
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b		NEIN	JA	20.03.2025
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2.2.9.1	Customer Notification of Product/Process Changes by Semiconductor Suppliers	NEIN		
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2.3	Right of Access	NEIN		
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2.4	PA Documentation	NEIN		
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2.4.2	Deliverable Product Assurance and Safety Documentation	NEIN		
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2.6	Use of Previously Designed, Fabricated, or Flown	NEIN		

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3.4.2	Personnel Training and Certification	NEIN		
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3.5.4.1	Identification	NEIN		
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3.8.4.4	Contamination Control	NEIN		
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3.8.4.5	Cleanliness of Facilities	NEIN		
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3.8.6	Specific Requirements for Assembly and Integration	NEIN		
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4.7.2	Dependability Requirements in Technical Specifications	NEIN		
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4.8.2	Consequences	NEIN		
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4.8.3	Failure Tolerance	NEIN		
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4.8.4	Design Approach	NEIN		
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4.8.4.1	Failure containment and redundancy	NEIN		
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4.10.4	Levels of Analyses	NEIN		
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4.11.2.1	2 Quantitative Reliability Requirements	NEIN		
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4.11.2.1.	Common Reliability Data Base	NEIN		

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4.11.2.1.5	Reliability Prediction (Parts Stress)	NEIN		
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4.11.2.1.6	Reliability Prediction Demonstration	NEIN		
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4.11.2.5	Failure Modes, Effects Analysis (FMEA)/Failure Modes, Effects and Criticality Analysis (FMECA)	NEIN		
4.11.2.5.1	General	NEIN		
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4.11.2.5.2	Objectives	NEIN		
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a	e		NEIN		
	4.11.2.10	Worst Case Analysis (WCA)	NEIN		
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D	b				

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4.11.2.11	Part Stress Analysis (Part	NEIN		
	Derating)			
a	_	NEIN		
b		NEIN		
С		NEIN		
d	_	NEIN		
e	_	NEIN		
f	_	NEIN		
g		NEIN		
4.11.2.12	Zonal Analysis	NEIN		
a		NEIN		
4.11.2.13	Maintenance Concept	NEIN		
a		NEIN		
b				
С				
4.11.2.13	. Maintenance Design Criteria	NEIN		
1				
a	_			
b				
С				
d		NEIN		
4.11.2.13	. Tools Requirement	NEIN		
2	_			
a		NEIN		
b	_	NEIN		
	. Maintenance Plan	NEIN		
3	_			
a		NEIN		
	. Maintainability/Maintenance	NEIN		
4	Analyses			
<u>a</u>		NEIN		
b	_	NEIN		
C	_	NEIN		
d		NEIN		
<u>e</u>	_			
<u>f</u>	_			
	. Corrective Maintenance	NEIN		
5	Analysis			

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a				
4.11.2.13.	Spare Requirements Analysis	NEIN		
6				
а		NEIN		
4.11.2.13.	Maintainability Information	NEIN		
7	from FMEA/FMECA			
а	-			
4.11.2.14	Availability Analysis	NEIN		
а	_			
b				
С				
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h	_			
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j		NEIN		
4.12	Reliability Testing and	NEIN		
	Demonstration			
а	-			
4.13	Maintainability	NEIN		
	Demonstration			
<u>a</u>		NEIN		
5	Safety	NEIN		
a				
b				
5.1	Policy	NEIN		
а				
5.2	Implementation	NEIN		
5.2.1	General	NEIN		
а				
5.2.2	Manned Environment	NEIN		
а				
5.3	Safety Programme	NEIN		
а	_			
5.3.1	Safety programme Plan	NEIN		
a	_			
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5.3.2	Conformance	NEIN		
a	-			
b		NEIN		
С	_	NEIN		
d		NEIN		
5.3.2.1	Payloads using Expendable	NEIN		
	Launch Vehicles (ELV):			
	National Range			
	Requirements			
a	_	NEIN		
b	_	NEIN		
С		NEIN		
d	_	NEIN		
е		NEIN		
5.3.3	Safety Organization	NEIN		
5.3.3.1	Safety Manager	NEIN		
a				
b				
С				
5.3.3.2	Safety Approval Authority	NEIN		
а	_			
5.3.4	Safety Risk Assessment and Control	NEIN		
a				
5.3.5	Safety Critical Items	NEIN		
а				
5.3.6	Project Phases and Safety Review Cycle	NEIN		
а		NEIN		
b		NEIN		
5.3.6.1	Mission Analysis - Phase 0	NEIN		
а		NEIN		
b		NEIN		
С		NEIN		
5.3.6.2	Feasibility - Phase A	NEIN		
а	_	NEIN		
b		NEIN		
С		NEIN		

5.3.6.3 Preliminary Definition - Phase B NEIN a b c d e 5.3.6.4 Detailed Definition, Production, Qualification, Testing - Phase C/D a b c d e 5.3.6.5 Disposal - Phase F NEIN a NEIN b NEIN a NEIN a NEIN 5.3.8 Safety Reviews NEIN a NEIN b NEIN c d e NEIN f NEIN b NEIN c d e NEIN b c d p	Abs	Titel	Ausgabe	geändert	Datum
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b		Phase B			
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5.3.8 Safety Reviews NEIN a NEIN b NEIN c Output d NEIN f NEIN 5.4 Safety Compliance Demonstration a Demonstration d Demonstration d Demonstration n Demonstration n <td< td=""><td>5.3.7</td><td>Progress Meetings</td><td>NEIN</td><td></td><td></td></td<>	5.3.7	Progress Meetings	NEIN		
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Demonstration a b c d e f NEIN	f		NEIN		
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5.5 Safety Training NEIN			NEIN		
	5.5	Safety Training	NEIN		

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5.6	Accident/Incident Reporting and Investigation	NEIN		
а				
5.7	Safety Documentation	NEIN		
5.7.1	Safety Data Package (SDP)	NEIN		
а				
b		NEIN		
С				
d		NEIN		
е	_	NEIN		
f	_	NEIN		
g		NEIN		
5.7.2	Safety Deviations/Waivers /NCRs	NEIN		
5.7.2.1	Request for Deviation or Waivers	NEIN		
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5.7.2.2	Nonconformance	NEIN		
а		NEIN		
5.7.2.3	Acceptance by the Safety Approval Authority	NEIN		
а				
5.7.2.4	Review and Disposition	NEIN		
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5.7.2.5	Safety lessons learned	NEIN		
а		NEIN		
5.8	Safety Engineering	NEIN		
а				
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5.8.1	Safety Design Objectives	NEIN		
a				
5.8.2	Hazard Reduction Precedence	NEIN		
a				
5.8.2.1	Hazard Elimination	NEIN		
a				
5.8.2.2	Hazard Minimization	NEIN		

a 5.8.2.3.1 Design	Control	NEIN	
a 5.8.2.3.1 Design	Control	NEIN	1
5.8.2.3.1 Design		INCTIN	
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- 1	Selection - Failure	NEIN	
l olerar	nce Design		
a			
5.8.2.3.2 Design	Selection - Design for	NEIN	
Minimu	um Risk		
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5.8.2.3.3 Autom	atic Safety Devices	NEIN	
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5.8.2.3.4 Warnin	g Devices	NEIN	
a			
5.8.2.3.5 Special	Procedures	NEIN	
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d		NEIN	
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5.8.2.3.6 Safe wi	thout Services	NEIN	
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5.8.2.4 Enviror	nmental Compatibility	NEIN	
a			
5.8.2.5 Externa	al Services	NEIN	
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5.9 Safety Contro	Risk Reduction and l	NEIN	
	y of Hazardous Event	NEIN	
	nction Criticality		
a			
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C			
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5.9.2 Failure	Tolerance	NEIN	
Require	ements		
5.9.2.1 Basic R	equirements	NEIN	
a			
b			

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5.9.2.2	Redundancy Separation	NEIN		
a		NEIN		
b	_	NEIN		
С	_	NEIN		
d		NEIN		
5.9.2.3	Failure Propagation	NEIN		
a	_			
5.9.3	Design for Minimum Risk	NEIN		
а				
5.9.3.1	Safety Factors	NEIN		
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5.9.3.1.1	Safety Critical Structures	NEIN		
а		NEIN		
5.9.3.2	Fracture Control	NEIN		
a		NEIN		
b		NEIN		
С		NEIN		
d	_	NEIN		
<u>e</u>		NEIN		
5.9.3.3	Sealed Container	NEIN		
<u>a</u>	_	NEIN		
5.9.3.4	Materials	NEIN		
<u>a</u>	_	NEIN		
b				
5.9.3.4.1	Selection and Approval	NEIN		
<u>a</u>	_	NEIN		
5.9.3.4.2	Stress Corrosion	NEIN		
<u>a</u>	_			
5.9.3.4.3	Flammability	NEIN		
<u>a</u>	_	NEIN		
b	_	NEIN		
5.9.3.4.4	Materials Offgassing in Habitable Areas	NEIN		
а		NEIN		
5.9.3.4.5	Forbidden Materials	NEIN		
a		NEIN		
b	_	NEIN		
5.9.3.4.6	Fluid Compatibility	NEIN		

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а	_	NEIN		
b	_	NEIN		
5.9.3.4.7	Volatile Organic Compound	NEIN		
	Approval			
а		NEIN		
5.9.3.4.8	J	NEIN		
	Resistance			
<u>a</u>		NEIN		
5.9.3.5	Batteries	NEIN		
a	_	NEIN		
5.9.3.6	Off-the-Shelf (OTS) Equipment	NEIN		
а		NEIN		
b	_	NEIN		
5.10	Identification and Control of Safety Critical Functions	NEIN		
5.10.1	Identification	NEIN		
a				
5.10.2	Inadvertent Operation	NEIN		
a	·			
5.10.3	Status Information	NEIN		
а	_			
5.10.4	Safe Shutdown and Failure Tolerance Requirements	NEIN		
а		NEIN		
5.10.5	Electronic, Electrical, Electromechanical Components	NEIN		
а				
b		NEIN		
5.10.6	Software Functions	NEIN		
5.10.6.1	Software Criticality	NEIN		
а				
b		NEIN		
5.10.6.2	Analysis of Safety-Critical Software	NEIN		
а	_			
5.10.6.3	Assignment of Software Criticality Category	NEIN		

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A	b		NEIN		
5.11.1 Touch Temperature NEIN a NEIN b NEIN 5.11.2 Shatterable materials NEIN a NEIN b NEIN b NEIN 5.11.3 Rotating equipment NEIN a NEIN 5.11.4 Pressure relief valves NEIN a NEIN 5.11.5 Flight Operations and Mission Control NEIN 5.11.5.1 Launcher Operations NEIN a NEIN NEIN 5.11.5.2 Flight Rules NEIN b NEIN NEIN 5.11.5.3 Hazardous Commanding Control NEIN a NEIN NEIN 5.11.5.4 Mission Operation Change Control NEIN 5.11.6.4 Applicability NEIN 5.11.6.5 Hazardous Operations NEIN 5.11.6.5 Hazardous Operations NEIN	5.11	Operational Safety	NEIN		
NEIN	а		NEIN		
Description NEIN Section Sec	5.11.1	Touch Temperature	NEIN		
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7.4.4	Cleanliness and	NEIN		
	Contamination Control			
a				
b				
С				
7.5	Materials Control	NEIN		
7.5.1	Technical Criteria for Selection of Materials	NEIN		
7.5.1.1	General	NEIN		
а				
b				
С				
7.5.1.2	Temperature	NEIN		
а	_			
7.5.1.3	Thermal Cycling and Thermo	NEIN		

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	Optical			
a				
7.5.1.4	Vacuum	NEIN		
а		NEIN		
b		NEIN		
7.5.1.5	Offgassing and Toxicity	NEIN		
a	=			
b				
7.5.1.6	Flammability	NEIN		
а		NEIN		
7.5.1.7	Radiation	NEIN		
a	=	NEIN		
7.5.1.8	Electrical Charge and Discharge	NEIN		
а				
7.5.1.9	Corrosion	NEIN		
а				
7.5.1.10	Stress-Corrosion	NEIN		
a				
7.5.1.11	Fluid Compatibility	NEIN		
a	_			
b				
С	_			
7.5.1.12	Galvanic Compatibility	NEIN		
a	_			
b				
7.5.1.13	Atomic Oxygen (ATOX)	NEIN		
a		NEIN		
7.5.1.14	Micrometeoroids and Debris	NEIN		
a		NEIN		
7.5.1.15	Moisture Absorption and Desorption	NEIN		
а				
7.5.1.16	Mechanical Contact Surface Effects: Cold Welding, Fretting, Wear	NEIN		
a				
7.5.1.17	Life	NEIN		

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а				
7.5.1.18	Bacterial and Fungus Growth	NEIN		
а	_			
b	_			
С				
7.5.1.19	Hydrogen Embrittlement	NEIN		
а				
7.5.2	Fracture Control	NEIN		
	Requirements			
a	_	NEIN		
b	_			
7.5.3	Selection and General	NEIN		
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d	_			
<u>e</u>	_			
7.5.3.1	Constraints	NEIN		
<u>a</u>				
7.5.3.2	Materials Control for	NEIN		
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<u>a</u>				
7.5.4	Declared Material List (DML)	NEIN		
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7.5.5	Criticality Analysis	NEIN		
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7.5.6.1	Evaluation Phase	NEIN		
a				

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b 7.6.5.1 Evaluation Phase NEIN a b 7.6.5.2 Qualification Phase NEIN a 7.6.5.2 Qualification Phase NEIN a 7.6.5.3 Approval Phase NEIN a 7.6.5.4 Deviation Request NEIN a NEIN NEIN 7.6.6.1 General NEIN a NEIN NEIN a NEIN NEIN 7.6.6.2 Procurement Specification NEIN a NEIN NEIN b NEIN NEIN 7.6.6.4 Incoming Inspection Procedure NEIN a 7.6.7 Use of Mechanical Parts NEIN 7.6.7.1 Qualification Status of Mechanical Parts NEIN	7.6.5		NEIN		
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7.6.5.2 Qualification Phase NEIN a 7.6.5.3 Approval Phase NEIN a 7.6.5.4 Deviation Request NEIN a 7.6.6 Procurement of Mechanical Parts 7.6.6.1 General NEIN a b 7.6.6.2 Procurement Specification NEIN a 7.6.6.3 Source inspection NEIN a b 7.6.6.4 Incoming Inspection Procedure a 7.6.7 Use of Mechanical Parts NEIN NEIN A Deviation Phase NEIN	a				
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b 7.6.6.4 Incoming Inspection Procedure a 7.6.7 Use of Mechanical Parts NEIN 7.6.7.1 Qualification Status of Mechanical Parts	7.6.6.3	Source inspection	NEIN		
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7.6.7.1 Qualification Status of NEIN Mechanical Parts	a				
Mechanical Parts	7.6.7	Use of Mechanical Parts	NEIN		
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a				
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7.6.7.3	Packaging, Storage, Removal from Storage	NEIN		
а				
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7.6.7.4	Limited-Life Mechanical Parts or Parts Subject to Wear Out	NEIN		
a				
7.7	Process Control	NEIN		
7.7.1	Specifications or Procedures	NEIN		
a				
7.7.2	Process Selection and Training	NEIN		
a				
b				
7.7.3	Declared Processes List (DPL)	NEIN		
а	_			
7.7.4	Criticality Analysis	NEIN		
7.7.4.1	Overview	NEIN		
a				
7.7.4.2	Requirements	NEIN		
а				
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d		NEIN		
<u>e</u>	_			
7.7.5	Evaluation and Verification Phase	NEIN		
7.7.5.1	General	NEIN		
а				
7.7.5.2	Evaluation Phase	NEIN		
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b				
7.7.5.3	Verification Phase	NEIN		

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7.7.5.4	Approval Phase	NEIN		
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7.7.5.5	Deviation Request	NEIN		
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7.7.6	Use of a Process	NEIN		
7.7.6.1	Verification Status of a Process	NEIN		
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7.7.6.2	Re-verification of a Process	NEIN		
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7.7.6.4	Standard Processes for Electronic Equipment	NEIN		
а	_			
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7.7.6.5	Standard Processes for Additive Manufacturing & SD Printing	NEIN		
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8	Software Product Assurance (SW PA)	NEIN		
а				
8.1	Objective	NEIN		
a				
8.2	Tailoring	NEIN		

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8.3	Policy and Principles	NEIN		
a				
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8.4	Software Product Assurance	NEIN		
	Programme Management			
8.4.1	Organization	NEIN		
а				
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8.4.2	Software Product Assurance	NEIN		
	Planning and Control			
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8.4.3	Software Product Assurance Reporting	NEIN		
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8.4.4	Software Problems	NEIN		
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b				
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8.4.5	Nonconformances	NEIN		
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8.4.6	Quality Requirements and Quality Models	NEIN		
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8.5	Risk Management and	NEIN		
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а				
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8.6	Software Process Assurance	NEIN		
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а				
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8.6.1.2	Life Cycle Definition Review	NEIN		
а				
8.6.1.3	Software Validation Process Schedule	NEIN		
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8.6.2	Requirements Applicable to all Software Engineering Processes	NEIN		
8.6.2.1	Documentation of Processes	NEIN		
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С				
d				
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f				
g		NEIN		
8.6.2.2	Software Dependability and Safety	NEIN		
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k				
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m				
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8.6.3	Handling of Critical Software	NEIN		

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8.6.4	Software Configuration Management	NEIN		
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8.6.5	Process Metrics	NEIN		
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b				
С	_			
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8.6.6	Verification	NEIN		
а	_			
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С				
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8.6.7	Reuse of Existing Software	NEIN		
<u>a</u>	_			
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g				
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i		NEIN		

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8.6.8	Automatic Code Generation	NEIN		
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8.7	Requirements Applicable to Individual Software Engineering Processes or Activities	NEIN		
8.7.1	Software Requirements Analysis	NEIN		
a				
b				
С				
8.7.1.1	Hardware/Software Interaction Analysis (HSIA)	NEIN		
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8.7.2	Software Architectural Design and Design of Software Items	NEIN		
а				
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8.7.3	Coding	NEIN		
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С				
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8.13	Safety	NEIN		
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8.14	Agile SW-QA	NEIN		
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8.14.2	Responsibility and Authority	NEIN		
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8.14.3	Software Product Assurance	NEIN		
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8.14.4	Reporting	NEIN		
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8.14.5	Product Quality Objectives and Metrication	NEIN		
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8.14.6	Criticality	NEIN		
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8.14.7	Software Problem	NEIN		
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8.14.8	Software Development	NEIN		
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8.14.9	Software Testing Aspects	NEIN		
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8.15.1	Independence	NEIN		
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10.2	Market Investigation and OTS Equipment identification	NEIN		
10.2.1	OTS Equipment Identification	NEIN		
10.2.1.1	Market Investigation	NEIN		
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10.2.1.2	OTS Equipment Criticality	NEIN		
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10.2.1.3	OTS Equipment Data Collection	NEIN		
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10.2.2	Preliminary Make-or-Buy Decision Point	NEIN		
10.2.2.1	Market Investigation Output	NEIN		
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10.3	OTS Characterization	NEIN		
10.3.1	General	NEIN		
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10.3.2	Product Assurance	NEIN		

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	Equipment Characterization			
10.3.2.1	Dependability	NEIN		
10.3.2.1.1	Criticality	NEIN		
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10.3.2.1.2	FMEA / FMECA	NEIN		
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10.3.2.1.3	Equipment Monitors	NEIN		
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10.3.2.1.4	OTS Equipment Operability	NEIN		
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10.3.2.1.5	Installation and Maintenance	NEIN		
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10.3.2.1.6	Internal Redundancy /	NEIN		
	Design for Minimum Risk			
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10.3.2.1.7	Reliability Figure	NEIN		
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10.3.2.1.8	Life	NEIN		
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10.3.2.1.9	Derating	NEIN		
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10.3.2.2	Safety	NEIN		

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10.3.2.2.1 Safety Criticality	NEIN		
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10.3.2.2.2 OTS Safety Data	NEIN		
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10.3.2.3 EEE Parts (inside OTS	NEIN		
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10.3.2.3.1 EEE Parts Management	NEIN		
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10.3.2.3.2 Part Quality	NEIN		
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10.3.2.4 Mechanical Parts, Materials and Processes	NEIN		
10.3.2.4.1 Mechanical Parts and	NEIN		

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10.3.2.4.2	Prohibited Materials	NEIN		
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10.4.3.2	Electrical Power	NEIN		_
	Requirements			
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10.4.3.4	Radio Frequency	NEIN		
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10.4.3.5	Electromagnetic Compatibility	NEIN		
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10.4.3.6	High Energy Radiations	NEIN		
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10.4.3.7	EEE Quality and Constraints	NEIN		
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10.6.1	OTS Equipment Procurement	NEIN		
10.6.1.1	OTS Equipment	NEIN		
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	Modified OTS Equipment			
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10.6.1.4	Quality Assurance	NEIN		
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10.6.1.5	Failure Reporting,	NEIN		
	Nonconformance Control			
	and Corrective Actions			
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