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QUALITY PLAN IMPLEMENTING MATRIX CRITERION 5, "WORK PROCESSES"

Item		Source	Implementation
No.	Requirement	Document	Location
	General Requiremen		T
1.	Perform work consistent with technical standards, administrative controls, and other hazard controls adopted to meet regulatory or contract requirements, using approved instructions, procedures, or other appropriate means. AND Work processes must be conducted in accordance with approved instructions, procedures, or drawings to ensure that: Work process parameters are controlled; Safe and secure work practices are employed; Specified environmental conditions are maintained; Records of qualified workers, equipment, and process procedures are maintained; Requisite quality parameters are verified; The end product is produced to customer expectations in a safe, efficient manner.	10CFR830.122(e)(1) AND DOE O 414.1C(4)(b)(5)(a) AND IP 330.0, LANL Quality Assurance Program, Subsection 5.2.2, Retaining Control of Work Processes and Special Processes	ISD 315-1.0, Conduct of Operations Manual, addresses these requirements.
2.	Each work activity not normally attributable to the skill of the craft must be performed under approved (repetitive process) procedures or must be under specific work plans analyzed for risks and hazards such as the Integrated Work Document (IWD) process under IMP 300, Integrated Work Management for Work Activities, prior to implementation.	IP 330.0, LANL Quality Assurance Program, Subsection 5.2.2, Retaining Control of Work Processes and Special Processes	ISD 315-1.0, Conduct of Operations Manual; IP 300-SD2, ISSM System Description; and IMP 300-1, Integrated Work Management Manual, address this requirement.
3.	 Work processes must be developed and implemented using available S/CI information and must include the following elements: 1) Engineering involvement in the development of procurement specifications; during inspection and testing; and when replacing, maintaining, or modifying equipment. 	DOE O 414.1C, Attachment 2(4)(b)(1)	ISD 840-1.1, Procurement Quality, Sections 4.3 and 4.4, address this requirement.

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item		Source	Implementation
No.	Requirement	Document	Location
4.	Work processes must be developed and implemented using available S/CI information and must include the following elements:	DOE O 414.1C, Attachment 2(4)(b)(2)	ISD 840-1.1, <i>Procurement Quality,</i> Sections 4.3 and 4.4, address this requirement.
	2) Procurement processes that prevent introduction of S/CIs by:		
	a. identifying technical and QA requirements in procurement specifications;		
	 accepting only those items that comply with the procurement specifications consensus standards, and commonly accepted industry practices; and 		
	 c. inspecting inventory and storage areas to identify, control, and disposition S/Cls. 		
5.	Work processes must be developed and implemented using available S/CI information and must include the following elements:	DOE O 414.1C, Attachment 2(4)(b)(3)	ISD 330-9.1, Suspect/Counterfeit Items, Section 4.8.1.B, and ISD 840-1.1, Procurement Quality,
	 Inspection, identification, evaluation, and disposition of S/CIs installed in all safety applications and other applications that create potential hazards. 		Subsection 4.4.4, address this requirement.
6.	Work processes must be developed and implemented using available S/CI information and must include the following elements:	DOE O 414.1C, Attachment 2(4)(b)(4)	ISD 330-6.1, Nonconformance Reporting, Section 4.3, and ISD 330-9.1, Suspect/Counterfeit
	4) Engineering evaluations and disposition of S/CIs installed in safety applications/systems or in applications that create potential hazards. The evaluations must consider potential risks to the public and worker and cost/benefit impact and include a schedule for replacement (if required).		Items, Subsections 4.8.1.B, 4.9.1, and 4.9.3.B, address this requirement.

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Item No.	Paguiroment	Source Document	Implementation Location
7.	Requirement Work processes must be developed and implemented using available	DOE O 414.1C,	ISD 330-9.1, Suspect/Counterfeit
7.	S/CI information and must include the following elements:	Attachment 2(4)(b)(5)	Items, Subsections 4.8.1.B, 4.9.1, and 4.10.1.B, address this
	5) Ensuring that S/CIs identified in nonsafety applications during routine maintenance and/or inspection are reported, evaluated,		requirement.
	and dispositioned to prevent future use in safety applications.		
8.	Work processes must be developed and implemented using available	DOE O 414.1C,	ISD 330-9.1, Suspect/Counterfeit
	S/CI information and must include the following elements:	Attachment 2(4)(b)(6)	Items, Subsection 4.10.2, addresses this requirement.
	6) Contacting the DOE Inspector General (IG) before destroying or disposing of S/CIs and their documentation to determine whether		·
9.	to retain them for criminal investigation or litigation. Work processes must be developed and implemented using available	DOE O 414.1C,	ISD 330-9.1, Suspect/Counterfeit
9.	S/CI information and must include the following elements:	Attachment 2(4)(b)(7)	Items, Section 8.1, addresses this requirement.
	7) Testing procured or installed S/CIs as necessary using approved engineering test methods.		
10.	Work processes must be developed and implemented using available S/CI information and must include the following elements:	DOE O 414.1C, Attachment 2(4)(b)(8)	ISD 330-9.1, Suspect/Counterfeit Items, Subsections 4.1, 4.5.1.A
	3/Cr information and must include the following elements.		and .B, and 4.10.2, address this
	8) Reporting S/CIs as per DOE O 231.1A, Change 1, Environment,		requirement.
	Safety, and Health Reporting, dated 06-03-04, and DOE O 221.1,		,
	Reporting Fraud, Waste, and Abuse, dated 03-22-01, to:		
	a. the responsible DOE/NNSA line management offices;		
	b. the Office of Environment, Safety and Health; and		
11.	c. the Office of the Inspector General. Work processes must be developed and implemented using available	DOE O 414.1C,	ISD 330-9.1, Suspect/Counterfeit
11.	S/CI information and must include the following elements:	Attachment 2(4)(b)(9)	Items, Section 4.7 and Subsection
	o, or information and must include the following clements.	/ (taoiiiioiit 2(4)(b)(9)	4.9.3, address this requirement.
	9) Conducting trend analysis and issuing lessons learned reports for		,
	use in improving the S/CI prevention.		

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

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Item		Source	Implementation
No.	Requirement	Document	Location
12.	Identify and control items to ensure their proper use.	10CFR830.122(e)(2)	ISD 330-11.0, Control of Items,
		AND	addresses this requirement.
		DOE O	
		414.1C(4)(b)(5)(b)	
13.	Maintain items to prevent their damage, loss, or deterioration.	10CFR830.122(e)(3)	ISD 840-1.1, Procurement Quality,
		AND	Section 8.3, and ISD 330-11.0,
		DOE O	Control of Items, Subsection 4.1.5,
		414.1C(4)(b)(5)(c)	address this requirement.
14.	Calibrate and maintain equipment used for process monitoring or data	10CFR830.122(e)(4)	EP-DIR-SOP-5006, Control of
	collection.	AND	Measuring and Test Equipment,
	AND	DOE O	2.1 Background, addresses these
	Measuring and test equipment (M&TE) used for process monitoring or	414.1C(4)(b)(5)(d)	requirements.
	data collection must be calibrated, controlled, and maintained in	AND	
	accordance with the Laboratory Calibration Program (OST 308-00-00)	IP 330.0, LANL Quality	
	managed by the Manufacturing Quality Division – Standards and	Assurance Program,	
	Calibration Laboratory, or in its absence, the manufacturer's	Subsection 5.2.4.2,	
	recommended standards.	Equipment Used for	
		Process Monitoring or	
4.5	Detailed text and in continuous at head and a class the dis-	Data Collection	IOD 000 0 0 decreation Test and
15.	Detailed test and inspection plans must be developed by the	IP 330.0, LANL Quality	ISD 330-8.0, Inspection, Test, and
	responsible manager to outline the processes for ensuring that the	Assurance Program, Subsection 5.2.2,	Acceptance, addresses this
	intent of the design is met.		requirement.
		Retaining Control of Work Processes and	
		Special Processes	
16.	Submittals from subcontractors must be reviewed for acceptability,	IP 330.0, LANL Quality	ISD 840-1.1, Procurement Quality,
10.	and their acceptability and use must be identified.	Assurance Program,	Section 4.11, addresses this
	and their acceptability and use must be identified.	Subsection 5.2.2,	requirement.
		Retaining Control of	Toquitoffic.
		Work Processes and	
		Special Processes	

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Item		Source	Implementation
No.	Requirement	Document	Location
17.	Accountability for application of special processes to vital safety systems and other high risk applications must be maintained through various verification activities performed by qualified workers.	IP 330.0, LANL Quality Assurance Program, Subsection 5.2.2, Retaining Control of Work Processes and Special Processes	ISD 330-8.0, Inspection, Test and Acceptance, and ISD 322-1.0, Management Assessment, address this requirement.
18.	These activities must include independent inspection, assignment of holdpoints, and witnessing or inspection/test verification in accordance with Criterion 8 of the LANL QAP, and surveillance and assessment conducted in accordance with Criterion 9 of the LANL QAP.	IP 330.0, LANL Quality Assurance Program, Subsection 5.2.2, Retaining Control of Work Processes and Special Processes	ISD 330-8.0, Inspection, Test and Acceptance, and ISD 322-1.0, Management Assessment, address this requirement.
	Basic Requirements	5	
	Instructions, Procedures, and	Drawings	
19.	Activities affecting quality and services shall be prescribed by and performed in accordance with documented instructions, procedures, or drawings that include or reference appropriate quantitative or qualitative acceptance criteria for determining that prescribed results have been satisfactorily attained. AND Work procedures, instructions, plans, drawings, or other appropriate controlling documentation must include or reference, where applicable, proven codes and standards and reference applicable tolerances, including qualitative or quantitative acceptance criteria.	ASME NQA-1-2000, Requirement 5, Instructions, Procedures, and Drawings, 100, Basic AND IP 330.0, LANL Quality Assurance Program, Section 4.2.1.1, Identifying Documents	ISD 315-1.0, Conduct of Operations, section16, addresses this requirement for instructions and procedures, and ISD 341-1.2, Engineering Processes Manual, addresses this requirement for drawings.

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

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Item		Source	Implementation
No.	Requirement	Document	Location
20.	The activity shall be described to a level of detail commensurate with the complexity of the activity and the need to assure consistent and acceptable results.	ASME NQA-1-2000, Requirement 5, Instructions, Procedures, and Drawings, 100, Basic	ISD 315-1.0, Conduct of Operations, section16, addresses this requirement for instructions and procedures, and ISD 341-1.2, Engineering Processes Manual, addresses this requirement for drawings.
21.	The need for and level of detail in written procedures or instructions shall be determined based upon complexity of the task, the significance of the item or activity, work environment, and worker proficiency and capability (education, training, experience). AND Higher hazard work (such as work with the potential to cause radiological harm or work governed by authorization bases documentation) must require strict specification of all work controls in work plans or procedures.	ASME NQA-1-2000, Requirement 5, Instructions, Procedures, and Drawings, 100, Basic AND IP 330.0, LANL Quality Assurance Program, Section 4.2.1.1, Identifying Documents	ISD 315-1.0, Conduct of Operations, section16, addresses the first paragraph requirement, ISD 112-1, Nuclear Facility Safety Documentation; IMP 112, Nuclear Facility Safety Basis; and IMP 300- 1, Integrated Work Management Manual; address these requirements.
	Identification and Control		
22.	Controls shall be established to assure that only correct and accepted items are used or installed.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 100, Basic	ISD 330-11.0, Control of Items, Section 4.1, addresses this requirement.
23.	Identification shall be maintained on the items or in documents traceable to the items, or in a manner that assures that identification is established and maintained. AND Identification necessary to provide traceability for an item, from initial receipt through installation and use, must be placed on the items or on documents traceable to the items.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 100, Basic	ISD 330-11.0, Control of Items, Sections 4.1, 4.2, and 4.3, addresses this requirement.

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Item		Source	Implementation
No.	Requirement	Document	Location
24.	When items such as labels, tags, ink stamps, or paints are used to	IP 300-SD3.2, LANL	ISD 330-11.0, Control of Items,
	identify items, provisions must be made to protect the identification	Quality Assurance	Section 4.2.2, addresses this
	from deteriorating.	Program, Section 5,	requirement.
		Work Processes,	
		Subsection 5.2.3,	
		Identifying and	
		Controlling Items	
25.	Items of production (batch, lot, component, part) shall be identified	ASME NQA-1-2000,	ISD 330-11.0, Control of Items,
	from the initial receipt and fabrication of items up to and including	Requirement 8,	Section 4.2.1, addresses this
	installation and use.	Identification and	requirement.
		Control of Items,	·
		201, Item Identification	
26.	This identification shall relate to an applicable design or other pertinent specifying document.	ASME NQA-1-2000,	ISD 330-11.0, Control of Items,
		Requirement 8,	Section 4.3.1, addresses this
		Identification and	requirement.
		Control of Items,	
		201, Item Identification	
27.	Physical identification shall be used to the maximum extent possible.	ASME NQA-1-2000,	ISD 330-11.0, Control of Items,
	AND	Requirement 8,	Section 4.2.2, addresses this
	To prevent the use of incorrect Suspect/Counterfeit Items or defective	Identification and	requirement.
	items, physical identification must be used when possible.	Control of Items,	
		202, Physical	
		Identification	
		AND	
		IP 330.0, LANL Quality	
		Assurance Program,	
		Subsection 5.2.4.1,	
		Subcontractors and	
		LANL Maintenance	
		Workers	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item No.	Requirement	Source Document	Implementation Location
28.	Where physical identification on the item is either impractical or insufficient, physical separation, procedural control, or other appropriate means shall be employed. AND When physical identification is impractical, workers must employ physical segregation, procedural control, or other means.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 202, Physical Identification AND IP 330.0, LANL Quality Assurance Program, Subsection 5.2.4.1, Subcontractors and LANL Maintenance Workers	ISD 330-11.0, Control of Items, Section 4.2.2, addresses this requirement.
29.	Identification markings shall be applied using materials and methods that provide a clear and legible identification and do not degrade the function or service life of the item. AND Identification must be clear, legible, and indelible. The marking material and method should not affect the overall function or performance of the controlled item.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 202, Physical Identification AND IP 330.0, LANL Quality Assurance Program, Subsection 5.2.4.1, Subcontractors and LANL Maintenance Workers	ISD 330-11.0, Control of Items, Section 4.2.2, addresses this requirement.
30.	The correct identification of items must be verified and documented before they are released for processing, use, storage, or shipping.	IP 330.0, LANL Quality Assurance Program, Subsection 5.2.4.1, Subcontractors and LANL Maintenance Workers	ISD 330-11.0, Control of Items, Subsections 4.1.4 through 4.1.7, address this requirement.

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Item		Source	Implementation
No.	Requirement	Document	Location
31.	Markings shall be transferred to each part of an identified item when subdivided and shall not be obliterated or hidden by surface treatment or coating unless other means of identification are substituted.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 202, Physical Identification	ISD 330-11.0, Control of Items, Subsection 4.2.2, addresses this requirement.
32.	When codes, standards, or specifications include specific identification or traceability requirements (such as identification or traceability of the item to applicable specification and grade of material; heat, batch, lot, part, or serial number; or specified inspection, test, or other records), the program shall provide such identification and traceability control.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 301, Identification and Traceability of Items	ISD 330-11.0, Control of Items, Subsection 4.3.2.A, addresses this requirement.
33.	Items having limited calendar or operating life or cycles shall be identified and controlled to preclude use of items whose shelf life or operating life has expired.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 302, Limited Life Items	ISD 330-11.0, Control of Items, Subsection 4.3.2.B, addresses this requirement.
34.	Provisions shall be made for the control of item identification consistent with the planned duration and conditions of storage, such as: a) Provisions for maintenance or replacement of markings and identification records due to damage during handling or aging; b) Protection of identifications on items subject to excessive deterioration due to environmental exposure; c) Provisions for updating existing plant records.	ASME NQA-1-2000, Requirement 8, Identification and Control of Items, 303, Maintaining Identification of Stored Items	ISD 330-11.0, Control of Items, Subsection 4.1.5, addresses this requirement.
35.	Items must be identified and controlled to ensure their proper use and must be maintained to prevent their damage, loss, or deterioration in accordance with the requirements contained in ISD 330-11, Identification and Control of Items.	IP 330.0, LANL Quality Assurance Program, Subsection 5.2.4, Identifying and Controlling Items	ISD 330-11.0, Control of Items, Sections 4.2 and 4.3, address this requirement.

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Source **Implementation** Item Requirement No. **Document** Location Items must meet functional and operational requirements consistent ISD 330-8.0, Inspection, Test and 36. IP 330.0. LANL Quality with design specifications in accordance with the requirements in ISD Acceptance, Section 4.1, Assurance Program, 330-8, Inspection, Test, and Acceptance. Subsection 5.2.4, addresses this requirement. Identifying and Controlling Items When mandated by requirements documents (e.g., design, IP 330.0, LANL Quality ISD 330-8.0, Inspection, Test and 37. Acceptance, Sections 6.2 and 6.3, procurement, construction, or maintenance), the material or item Assurance Program, pedigree including inspection, testing, and operating status, must be Subsection 5.2.4. address this requirement. retained as a permanent record. Identifying and Controlling Items ISD 330-11.0, Control of Items, 38. Identification necessary to provide traceability for an item, from initial IP 330.0, LANL Quality receipt through installation and use, must be placed on the items or on Assurance Program, Sections 4.2 and 4.3, address this documents traceable to the items. Subsection 5.2.4. requirement. Identifying and Controlling Items 39. When items such as labels, tags, ink stamps, or paints are used to IP 330.0, LANL Quality ISD 330-11.0, Control of Items, Section 4.2, addresses this identify items, provisions must be made to protect the identification Assurance Program, from deteriorating. Subsection 5.2.4. requirement. Identifying and Controlling Items **Control of Special Processes** Special processes that control or verify quality, such as those used in ASME NQA-1-2000. ISD 330-5.0, Special Processes, 40. welding, heat treating, and nondestructive examination, shall be Requirement 9. Control Subsection 4.3.2.A. addresses this performed by qualified personnel using qualified procedures in of Special Processes, requirement. accordance with specified requirements. 100, Basic AND Special processes that control or verify quality, such as those used in IP 330.0, LANL Quality welding, heat-treating, and nondestructive examination, must be Assurance Program, approved by the responsible manager for specific applications. Subsection 5.2.2. Retaining Control of Work Processes and **Special Processes**

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

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Item		Source	Implementation
No.	Requirement	Document	Location
41.	Special processes shall be controlled by instructions, procedures,	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	drawings, checklists, travelers, or other appropriate means.	Requirement 9, Control	Subsection 4.3.1.A, addresses this
		of Special Processes,	requirement.
		201, Special Processes	
42.	Special process instructions shall include or reference procedure,	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	personnel, and equipment qualification requirements.	Requirement 9, Control	Subsection 4.3.2.A, addresses this
	AND	of Special Processes,	requirement.
	These processes [welding, heat treating, and nondestructive	201, Special Processes	
	examination] must be performed in accordance with documents that	AND	
	include or reference procedures, workers, and equipment qualification	IP 330.0, LANL Quality	
	requirements.	Assurance Program,	
		Subsection 5.2.2,	
		Retaining Control of	
		Work Processes and	
40	On the second se	Special Processes	100,000,50,000,000
43.	Conditions necessary for accomplishment of the process shall be	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	included. AND	Requirement 9, Control	Subsection 4.3.2.A, addresses this
		of Special Processes,	requirement.
	Conditions necessary for accomplishment of the special process and acceptance criteria must be included in the work documents.	201, Special Processes AND	
	acceptance chiena must be included in the work documents.	IP 330.0, LANL Quality	
		Assurance Program,	
		Subsection 5.2.2,	
		Retaining Control of	
		Work Processes and	
		Special Processes	
44.	These conditions shall include proper equipment, controlled	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	parameters of the process, specified environment, and calibration	Requirement 9, Control	Subsection 4.3.2.A, 4.3.5, and
	requirements.	of Special Processes,	4.3.9, address this requirement.
		201, Special Processes	- 1,a

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

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Item		Source	Implementation
No.	Requirement	Document	Location
45.	The requirements of applicable codes and standards, including	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	acceptance criteria for the process shall be specified or referenced in	Requirement 9, Control	Subsection 4.3.2.A, addresses this
	procedures or instructions.	of Special Processes,	requirement.
		202, Acceptance	
		Criteria	
46.	For special processes not covered by existing codes and standards or	ASME NQA-1-2000,	**ISD 330-5.1, Special Processes,
	where quality requirements specified exceed those of existing codes	Requirement 9, Control	addresses this requirement.
	or standards, the necessary requirements for qualifications of	of Special Processes,	
	personnel, procedures, or equipment shall be specified or referenced	203, Special	
	in procedures or instructions.	Requirements	
47.	It is the responsibility of the organization performing the special	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	process to adhere to the approved procedures and processes.	Requirement 9, Control	Subsection 4.3.2, addresses this
		of Special Processes,	requirement.
		303, Responsibility	
48.	Records shall be maintained as appropriate for the currently qualified	ASME NQA-1-2000,	ISD 330-5.0, Special Processes,
	personnel, processes, and equipment of each special process.	Requirement 9, Control	Section 6.3, addresses this
		of Special Processes,	requirement.
		400, Records	
	Control of Measuring and Test		
49.	Selection of measuring and test equipment shall be based on the type,	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	range, accuracy, and tolerance needed to accomplish the required	Requirement 12,	Control of Measuring and Test
	measurements for determining conformance to specified	Control of Measuring	Equipment, Section 2.1, addresses
	requirements.	and Test Equipment,	this requirement.
		200, Selection	
50.	Measuring and test equipment shall be calibrated at prescribed time	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	periods or usage and whenever the accuracy of the equipment is	Requirement 12,	Control of Measuring and Test
	suspect.	Control of Measuring	Equipment, Sections 4.3 and 4.5,
		and Test Equipment,	address this requirement.
		301, Calibration	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item		Source	Implementation
No.	Requirement	Document	Location
51.	Calibration shall be against certified equipment having known valid	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	relationships to nationally recognized standards.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Section 2.2, addresses
		and Test Equipment,	this requirement.
		301, Calibration	
52.	If no nationally recognized standards exist, the basis for calibration	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	shall be documented.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Section 2.2, addresses
		and Test Equipment,	this requirement.
		301, Calibration	
53.	Calibration procedures shall identify or reference required accuracy.	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
		Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Subsection 4.1.2,
		and Test Equipment,	addresses this requirement.
		302, Control	
54.	Methods and frequency of checking accuracy shall be defined in	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	procedures.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Subsection 4.1.2,
		and Test Equipment,	addresses this requirement.
		302, Control	
55.	The calibration method and interval of calibration for measuring and	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	test equipment shall be defined, based on the type of equipment,	Requirement 12,	Control of Measuring and Test
	stability characteristics, required accuracy, intended use, and other	Control of Measuring	Equipment, Subsection 4.1.2,
	conditions affecting capability.	and Test Equipment,	addresses this requirement.
		302, Control	ED DID OOD FOOD D
56.	Out-of-calibration devices shall be tagged or segregated, or both, and	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	not used until they have been recalibrated.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Subsections 4.5.2 and
		and Test Equipment,	4.5.3, address this requirement.
		302, Control	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item	,	Source	Implementation
No.	Requirement	Document	Location
57.	Measuring or test equipment consistently found to be out of calibration	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	shall be repaired or replaced.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Section 4.5.10,
		and Test Equipment,	addresses this requirement.
		302, Control	
58.	When measuring and test equipment are found to be out of calibration,	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	an evaluation commensurate with the significance of the condition	Requirement 12,	Control of Measuring and Test
	shall be made and documented including the validity of previous	Control of Measuring	Equipment, Subsections 4.5.5
	inspection or test results and of the acceptability of items previously	and Test Equipment,	through 4.5.8, address this
	inspected or tested.	302.1, Corrective	requirement.
		Action	
59.	Measuring and test equipment shall be properly handled and stored to	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	maintain accuracy.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Section 4.7, addresses
		and Test Equipment,	this requirement.
		302.2, Handling and	
		Storage	
60.	Equipment shall be suitably marked or otherwise identified to indicate	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	calibration status.	Requirement 12,	Control of Measuring and Test
		Control of Measuring	Equipment, Subsection 4.5.2,
		and Test Equipment,	addresses this requirement.
		302.3, Status Indication	
61.	Calibration and control measures are not required for commercial	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	equipment such as rulers, tape measures, levels, etc., if such	Requirement 12,	Control of Measuring and Test
	equipment provides the required accuracy.	Control of Measuring	Equipment, Section 2.1, addresses
		and Test Equipment,	this requirement.
		303, Commercial	
		Devices	
62.	Records shall be established and maintained to indicate calibration	ASME NQA-1-2000,	EP-DIR-SOP-5006, Revision 0.0,
	status and the capability of measuring and test equipment to	Requirement 12,	Control of Measuring and Test
	satisfactorily perform their intended function.	Control of Measuring	Equipment, Section 4.9, addresses
		and Test Equipment,	this requirement.
		400, Records	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item		Source	Implementation
No.	Requirement	Document	Location
	Handling, Storage, and Sh		
63.	Handling, storage, cleaning, packaging, shipping, and preservation of items shall be controlled to prevent damage or loss and to minimize deterioration.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 100, Basic	ISD 840-1.1, <i>Procurement Quality</i> , Section 8.3, addresses this requirement.
64.	These activities shall be conducted in accordance with established work and inspection instructions, drawings, specifications, shipment instructions, or other pertinent documents or procedures specified for use in conducting the activity.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 100, Basic	ISD 840-1.1, <i>Procurement Quality,</i> Section 8.3, addresses this requirement.
65.	When required, special equipment (such as containers, shock absorbers, and accelerometers) and special protective environments (such as inert gas atmosphere, specific moisture content levels, and temperature levels) shall be specified and provided and their existence verified.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 200, Special Requirements	ISD 840-1.1, <i>Procurement Quality</i> , Subsection 8.3.C.6, addresses this requirement.
66.	When required for critical, sensitive, perishable, or high-value items, specific procedures for handling, storage, packaging, shipping, and preservation shall be used.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 300, Procedures	ISD 840-1.1, <i>Procurement Quality,</i> Subsection 8.3.C.5, addresses this requirement.
67.	Special handling tools and equipment shall be utilized and controlled where necessary to ensure safe and adequate handling.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 400, Tools and Equipment	ISD 840-1.1, <i>Procurement Quality,</i> Section 8.3.A, addresses this requirement.
68.	Special handling tools and equipment shall be inspected and tested periodically or prior to use as necessary to ensure performance.	ASME NQA-1-2000, Requirement 13, Handling, Storage, and Shipping, 400, Tools and Equipment	ISD 840-1.1, Procurement Quality, Section 8.3.A, addresses this requirement.

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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experienced or trained in use of the equipment. Requirement 13, Handling, Storage, and Shipping, 500, Operators 70. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of Requirement 13, Section	Location D 840-1.1, Procurement Quality, ction 8.3.A, addresses this juirement. D 840-1.1, Procurement Quality, ction 8.4, addresses this juirement.
experienced or trained in use of the equipment. Requirement 13, Handling, Storage, and Shipping, 500, Operators 70. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of Requirement 13, Section	ction 8.3.A, addresses this juirement. D 840-1.1, <i>Procurement Quality,</i> ction 8.4, addresses this
To. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of maintain and preserve the item.	D 840-1.1, <i>Procurement Quality,</i> ction 8.4, addresses this
70. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of Requirement 13, Section 13, Section 13, Section 13, Section 13, Section 14, Secti	0 840-1.1, <i>Procurement Quality,</i> ction 8.4, addresses this
70. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of Requirement 13, Section 13, Section 13, Section 13, Section 13, Section 14, Sec	ction 8.4, addresses this
70. Marking or labeling shall be utilized as necessary to adequately maintain and preserve the item, including indication of the presence of ASME NQA-1-2000, Requirement 13, Section	ction 8.4, addresses this
maintain and preserve the item, including indication of the presence of Requirement 13, Section	ction 8.4, addresses this
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I appeal on uranments or the peed for appeal pontrols I Handling Storage and I require	ullernent.
special environments or the need for special controls. Handling, Storage, and required Shipping, 600, Marking	
and Labeling	
	0 840-1.1, Procurement Quality,
	bsection 8.3A.3, and EP-ERSS-
	P-5057, Revision 0.0, Handling,
	ansporting, and Shipping of Field
	mples, Section 2.2, address this
requir	uirement.
	0 840-1.1, Procurement Quality,
	ction 8.3, addresses this
	uirement.
requirements not being met) through appropriate warehousing, Storing Items	
storage, and oversight.	
[NOTE: Oversight activities for verification include inspection,	
monitoring, surveillance, or assessment conducted in accordance with Criterion 8 and Criterion 9 of the LANL QAP.]	
Inspection, Test, and Operating Status 73. The status of inspection and test activities shall be identified either on ASME NQA-1-2000, ISD 3	330-8.0, Inspection, Test and
· · · · · · · · · · · · · · · · · · ·	ceptance, Section 4.5,
	dresses this requirement.
ensure that items which have not passed the required inspections and Operating Status,	aresses tills requirement.
tests are not inadvertently installed, used, or operated.	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Requirement	P 4	
	Document	Location
Status shall be maintained through indicators, such as physical location and tags, markings, shop travelers, stamps, inspection records, or other suitable means.	ASME NQA-1-2000, Requirement 14, Inspection, Test, and Operating Status, 100, Basic	ISD 330-8.0, Inspection, Test and Acceptance, Section 4.5, addresses this requirement.
The authority for application and removal of tags, markings, labels, and stamps shall be specified.	ASME NQA-1-2000, Requirement 14, Inspection, Test, and Operating Status, 100, Basic	ISD 330-8.0, Inspection, Test and Acceptance, Section 4.5, addresses this requirement. ISD 101-19, Safety Signs, Labels, and Tags, addresses this requirement. ISD 315-1, Conduct of Operations Manual addresses this requirement.
Status indicators shall also provide for indicating the operating status of systems and components of the nuclear facility, such as by tagging valves and switches, to prevent inadvertent operation.	ASME NQA-1-2000, Requirement 14, Inspection, Test, and Operating Status, 100, Basic	ISD 330-8.0, Inspection, Test and Acceptance, Section 4.5, addresses this requirement. ISD 101-3, Lockout/Tagout for Hazardous Energy Control addresses this requirement. ISD 315-1, Conduct of Operations Manual addresses this requirement.
Control of Nonconforming	g Items	
Items that do not conform to specified requirements shall be controlled to prevent inadvertent installation or use.	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 100, Basic	ISD 330-6.1, Nonconformance Reporting, Subsection 4.1.1, addresses this requirement.
Controls shall provide for identification, documentation, evaluation, segregation when practical, and disposition of nonconforming items, and for notification to affected organizations. Nonconforming items shall be identified by legible marking, tagging, or	Requirement 15, Control of Nonconforming Items, 100, Basic	ISD 330-6.1, Nonconformance Reporting, Subsection 4.1.1, addresses this requirement. ISD 330-6.1, Nonconformance
	location and tags, markings, shop travelers, stamps, inspection records, or other suitable means. The authority for application and removal of tags, markings, labels, and stamps shall be specified. Status indicators shall also provide for indicating the operating status of systems and components of the nuclear facility, such as by tagging valves and switches, to prevent inadvertent operation. Control of Nonconforming Items that do not conform to specified requirements shall be controlled to prevent inadvertent installation or use. Controls shall provide for identification, documentation, evaluation, segregation when practical, and disposition of nonconforming items,	location and tags, markings, shop travelers, stamps, inspection records, or other suitable means. Requirement 14, Inspection, Test, and Operating Status, 100, Basic The authority for application and removal of tags, markings, labels, and stamps shall be specified. Status indicators shall also provide for indicating the operating status of systems and components of the nuclear facility, such as by tagging valves and switches, to prevent inadvertent operation. Control of Nonconforming Items Items that do not conform to specified requirements shall be controlled to prevent inadvertent installation or use. Control of Nonconforming Items Ton, Basic Control shall provide for identification, documentation, evaluation, segregation when practical, and disposition of nonconforming items, and for notification to affected organizations. Requirement 14, Inspection, Test, and Operating Status, 100, Basic ASME NQA-1-2000, Requirement 14, Inspection, Test, and Operating Status, 100, Basic ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 100, Basic

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item	Poguiroment	Source	Implementation
No.	Requirement other methods not detrimental to the item, on either the item, the	Document 15	Location
	container, or the package containing the item.	Requirement 15, Control of	Reporting, Subsection 4.1.1, addresses this requirement.
	container, or the package containing the item.	Nonconforming Items,	addresses this requirement.
		200, Identification	
80.	Nonconforming items shall be segregated, when practical, by placing	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	them in a clearly identified and designated hold area until properly	Requirement 15,	Reporting, Subsection 4.1.1,
	dispositioned.	Control of	addresses this requirement.
		Nonconforming Items,	·
		300, Segregation	
81.	When segregation is impractical or impossible due to physical	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	conditions such as size, weight, or access limitations, other	Requirement 15,	Reporting, Subsection 4.1.1,
	precautions shall be employed to preclude inadvertent use of a	Control of	addresses this requirement.
	nonconforming item.	Nonconforming Items,	
		300, Segregation	
82.	Nonconforming items shall be evaluated and recommended	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	dispositions shall be proposed.	Requirement 15,	Reporting, Sections 4.3 and 4.4,
		Control of	address this requirement.
		Nonconforming Items,	
		401, Control	
83.	Further processing, delivery, installation, or use of a nonconforming	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	item shall be controlled pending the evaluation and an approved	Requirement 15,	Reporting, Section 4.4, addresses
	disposition by authorized personnel.	Control of	this requirement.
		Nonconforming Items,	
0.4	The recognition of the responsibility and push originates and plants of the responsibility and push originates	401, Control	ICD 220 C.4. Nanaanfarmanaa
84.	The responsibility and authority for the evaluation and disposition of	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	nonconforming items shall be defined.	Requirement 15, Control of	Reporting, Sections 4.3 and 4.4, address this requirement.
		Nonconforming Items,	audiess tilis requirement.
		402, Responsibility and	
		Authority	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item		Source	Implementation
No.	Requirement	Document	Location
85.	Responsibility for the control of further processing, delivery, installation, or use of nonconforming items shall be designated in writing.	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 402, Responsibility and Authority	ISD 330-6.1, Nonconformance Reporting, Section 4.4, addresses this requirement.
86.	Personnel performing evaluations to determine a disposition shall have demonstrated competence in the specific area they are evaluating, have an adequate understanding of the requirements, and have access to pertinent background information.	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 403, Personnel	ISD 330-6.1, Nonconformance Reporting, Section 4.4, addresses this requirement.
87.	A disposition, such as use-as-is, reject, repair, or rework of nonconforming items shall be made and documented.	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 404, Disposition	ISD 330-6.1, Nonconformance Reporting, Section 4.4, addresses this requirement.
88.	Technical justification for the acceptability of a nonconforming item dispositioned repair or use-as-is shall be documented.	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 404, Disposition	ISD 330-6.1, Nonconformance Reporting, Subsections 4.4.2.A and 4.4.2.B, address this requirement.
89.	 Nonconformances to design requirements dispositioned use-as-is- or repair shall be subject to design control measures commensurate with those applied to the original design, and: 1. If changes to the specifying document are required to reflect the as-built condition, then the disposition shall require action to change the specifying document to reflect the accepted nonconformance. 2. Any document or QA record change required by the disposition of the nonconformance shall be identified 	ASME NQA-1-2000, Requirement 15, Control of Nonconforming Items, 404, Disposition	**ISD 330-6.2, Nonconformance Reporting, addresses this requirement.

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.

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Item		Source	Implementation
No.	Requirement	Document	Location
90.	Required as-built records shall reflect the use-as-is or repair condition.	ASME NQA-1-2000,	**ISD 330-6.2, Nonconformance
		Requirement 15,	Reporting, addresses this
		Control of	requirement.
		Nonconforming Items,	
		404, Disposition	
91.	Repaired items shall be re-examined in accordance with applicable	ASME NQA-1-2000,	ISD 330-6.1, Nonconformance
	procedures and with the original acceptance criteria unless the	Requirement 15,	Reporting, Subsection 4.4.1.2.B,
	disposition has established alternate acceptance criteria.	Control of	addresses this requirement.
	AND	Nonconforming Items,	
	Repaired or reworked items shall be re-examined using the original	405, Re-examination	
	process and acceptance criteria unless the nonconforming item		
	disposition has established alternate acceptance criteria.		
	Monitoring Process Acti		
92.	Responsible managers must monitor work processes for compliance	IP 330.0, LANL Quality	ISD 322-1.0, Management
	with specific work requirements.	Assurance Program,	Assessment, and ISD 322-2.0,
		Subsection 5.2.6,	Independent Assessment, address
		Monitoring Process	this requirement.
00		Activities	ICD 200 4 0 Management
93.	In addition to the normal work control processes, responsible	IP 330.0, LANL Quality	ISD 322-1.0, Management
	managers must continuously monitor work processes through various	Assurance Program,	Assessment, and ISD 322-2.0,
	verification activities as outlined in work-specific acceptance	Subsection 5.2.6,	Independent Assessment, address
	test/plans.	Monitoring Process	this requirement.
		Activities	

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

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Item		Source	Implementation
No.	Requirement	Document	Location
	Suspect/Counterfeit Item (S/CI) Pre	vention Process	
94.	 Work process controls for S/CI must include: Development and implementation of policies and procedures that prevent the introduction and use of S/CI through engineering involvement, design, procurement, testing, inspection, maintenance, evaluation, disposition, reporting, trend analysis, and lessons learned work process controls; Training to inform responsible managers, supervisors, and workers on S/CI processes and controls, including prevention, detection, and disposition of S/CI; Identification of S/CI through inspection, test, and surveillance; and 	IP 330.0, LANL Quality Assurance Program, Section 5, Work Processes, Subsection 5.2.2, Retaining Control of Work Processes and Special Processes	ISD 330-9.1, Suspect/Counterfeit Items, Subsections 1.3.4.1, 4.10.1.B, 5.1, and 8.1, address this requirement.
	Restriction of S/CI use to only those items found to be acceptable through engineering analysis and formal disposition process.		

^{*}Black Type = Mandatory QA requirements from Contract DE-AC52-06NA25396, LANL/NMED Order on Consent, DOE Order 414.1C, 10 CFR 830, Subpart A, ASME NQA-1-2000, and LANL QA Program IP 330.0.

^{**}Requirement is not currently in the location specified; however, it will be included within the next revision of the document.