

January 30, 2018 GEN/QA-4918

Patricia Silva, Chief
Inspections and Operations Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards

Reference: NRC Letter (Patricia Silva) to General Atomics, "Part 71 Quality Assurance

Program Approval Biennial Change Report," dated December 22, 2017

Dear Ms. Silva,

In response to your letter (Ref.) and pursuant to 10 CFR 71.106, General Atomics (GA) hereby submits its first biennial report listing the changes made to the General Atomics Nuclear Quality Assurance Program between 15 August 2015 and 15 August 2017 (Please see enclosure).

None of the changes to GA's nuclear QA program during the stated time period reduce commitments to the NRC. Of the sixty five (65) changes made to GA's nuclear QA program, thirty (30) are clarifications that do not reduce commitments; nineteen (19) are enhancements that strengthen commitments; twelve (12) are changes that continue to meet the existing commitments; two (2) are editorial in nature; one (1) is administrative; and one (1) increases a commitment.

The enclosed report is in the format of a table listing each of the changes made to GA's QA Program. Among other information, it lists the revision numbers, effective dates, titles, changed sections, the changes made (shown in red font), the reasons for the changes, and the basis for concluding that the changes did not reduce the commitments to the NRC.

If you have questions regarding this report of the changes to GA's nuclear program, please feel free to contact me at 858-455-2823, keith.asmussen@ga.com, or the mailing address below.

Sincerely,

Keith E. Asmussen, Ph.D., Director

Keith E. Asmurse

Licensing, Safety, and Nuclear Compliance

Enclosure: Table as described in text of letter

cc: P. O'Shaughnessy (GA)

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	QP-2	QP-1	U-dD	QP-1	Qp-I	Introduction	Introduction	Introduction	Introduction	QP No.
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	5/27/2016	5/27/2016	5/27/2016	5/27/2016	5/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	Effective Date
	Quality Assurance Program	Organization	Organization	Organization	Organization	Introduction	Introduction	Introduction	Introduction	Title
	Not in previous version	3.6.6.4 Fission organization	Figure 1-2 outdated	Figure 1-1 outdated	3.6.2.1 Fission Energy, which includes the Gas-Cooled Reactors programs, TRIGA Systems, ITRIGA International, and EM 2, etc., programs, reports to the Senior Vice President, Energy and Advanced Concepts Group, is responsible for engineering design of reactor systems, including design verification and interface control.	Not in previous version	Not in previous version	Inadvertently left out of previous version.	ASME NQA-1-2008/-1a-2011	Previous
	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	3.6.6.4 Change of Department Name from Fission to Nuclear Technology and Materials Division (updated name)	Changed org. chart	Changed org. chart	3.6.2.1 Changed name of Division from Pission to Nuclear Technology and Materials, Updated names of programs in the division	Definitions	Definitions	Introduction & Statement of Authority	Introduction & Statement of Authority	Changed Section
	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	3.6.6.4 Nuclear Technology and Materials Division	Figure 1-2 Replaced the old org chart with an updated Org. Chart	Figure 1-1 Replaced the old org chart with an updated Org. Chart	3.6.2.1 Nuclear Technology and Materials. Nuclear Technology and Materials (VITM), which includes the Gas-Cooled Reactors programs (e.g. RM ³). Advanced Nuclear Fuels, Nuclear Mechanical Engineering, Radiochemical Engineering, TRIGA Systems, etc., reports to the Senior Vice President, Energy Group, and is responsible for engineering design of reactor systems, including design verification and interface control.	Added Definition. Substantial Safety Hazard. — Means a loss of safety function to the Substantial Safety Hazard. — Means a loss of safety function to the extent that there is a major a major reduction in the degree of extent of proveded to public health and safety for any facility or activity literased or otherwise approved or regulated by the NRC, other than for export, under parts 30, 40, 50, 52, 60, 61, 63, 70, 71, or 72 of this chapter. (Quoted from 10CFR21, and CP 207)	Added Definition: Significant Deficiency. — A deficiency found in design and/or Clignificant Deficiency. — A deficiency found in design and/or construction, which if remained uncorrected, could adversely affect a structure, system or component to prevent it from performing its intended safety function. (from 10CFR30.55(e))	Added: IOCFR21, "Reporting of Defects and Noncompliance"	Changed to ASME NQA-1-2008/-1s-2009	Change
	Needed to show which QPs and QDI's applied to this procedure.	Changed to bring the name of the flasion division and the names of the parts of the division up to date.	Need to keep the org chart updated	Need to keep the org chart updated	Changed to bring the name of the fission division and the names of the parts of the division up to date.	Added as part of the updating of the Corrective Action Program	Added as part of the updating of the Corrective Action Program	Reinstated wording.	NRC has not sanctioned NQA-12011. GA's QA program complies with the most recent NRC-sanctioned version of NQA-1, so had to change the number back to the sanctioned version of NQA-1.	Reason for the change
	Clarification that does not reduce commitments.	These are the organizations that need to comply with the QA program requirements.	Meets 5 71.103	Meets § 71.103	These are the organizations that need to comply with the QA program requirements.	Does not reduce commitments to the previously approved QA program. Enhances commitment to safety performance.	Meets 971.133	Does not reduce commitments to the previously approved QA program.	§71.101(9) the GA QA program continues to comply with 10 CFR 50 Appendix B. Does not reduce commitments to the previously approved QA program.	Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

QP-3	QP-2	QP-2	QP-2	QP-2	QP-2	QP-2	QPN ₀ ,
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5/27/2016	5/27/2016	5/27/2016	5/27/2016	<i>\$/27/2</i> 016	5/27/2016	<i>5/27/2</i> .016	Effective Date
Design Control	Quality Assurance Program	Quality Assurance Program	Quality Assurance Program	Quality Assurance Program	Quality Assurance Program	Quality Assurance Program	Tine
None	Section 3.7 Records	Section 3.6.1 Section 3.6.1 The qualification of Auditor or Lead Auditor personnel shall be certified by the Quality Systems Manager. Qualification of inspection and test personnel shall be certified by the cognizant QA Manager. Personnel certifications shall be in writing and shall include the following information:	Section 3.5.4.2 Training	Section 3.4.1 Indoctrination Personnel performing or managing activities affecting quality shall initially receive indoctrination in their job responsibilities and authority that includes general criteris, technical objectives, requirements of applicable codes and standards; regulatory commitments, company procedures, and quality assurance program requirements. Additional indoctrination shall be provided when changes in position, responsibility, and codes and standards occur.	Updated section 3.3 Chief Operating Officer (COO)	3.2.2.1 R&D activities include exploratory, experimental, and basic research which provides indirect support for design of systems and components.	Previous
Added New Section : Applicable QP's and QDI's and adjusted numbering sequence	Section 4.7	Sec. 3.6.1	Sect. 3.5.4.2	Added referenced QDI 2-9	Updated title from COO Section 4.3 to Senior Vice Senior Vice President(s)	3.2.1.1 Updated the definition of R&D levels to comply with NQA 1 definitions	Changed Section
Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Section 4.7, Section 4.7.1 and Section 4.7.2 Records include project training records and QA training records.	4.6.1 The qualification of Auditor or Lead Nuclear Auditor personnel shall be certified by the Quality Systems Manager, or designee. This applies to both Lead Nuclear Auditors under the GA TP QA Program and Lead Nuclear Auditors who are internal to GA but external to the GA TP QA Program (e.g., from the Baddiston monitoring systems program, etc.) Qualification requirements are in QDI 18-2.	Section 4.5.4.2 Training Addet: Addet: *Lead Nuclear Auditions from outside of the General Atomics Torrey Fines Quality Assurance Program (GA TP QAP) to perform internal audits of the GA TP QAP, shall be trained in the QA Procedures (QAM, QD1's, etc.) and such training documented on a Record of Training Porm. (See QD1 18-2.)	4.4.1 Indocrination Personnel performing or managing activities affecting quality shall initially receive indocrination in their job responsibilities and authority that includes general crieria, technical objectives, requirements of applicable codes and standards, regulatory commitments, company procedures, and quality assurance program requirements per QDI 2-9. Additional indocrination shall be provided when changes in position, responsibility, and codes and standards occur.	Section 4.3 Senior Vice President(s);	4.2.2.1 R&D activities include exploratory, experimental, basic research, applied and developmental, which provides indirect support for design of systems and components. The minimum requirements at the basic and applied levels includes identification and control of materials and M&TE is calibrated. Released procedures or fibrication travelers may be used. At the development level of R&D all 18 criteria in Part 1 of NQA-1 apply to development work activities (Table 600 in NQA-1 2008/-1a-2009 Addenda, Part IV, Subpart 4.2, "Applicability to Research and Development Activities).	Change
Needed to show which QPs and QDI's applied to this procedure.	Expanded Explanation of records to include project training records and QA training records	Change requested by external auditors. They wanted written proof that Internal Auditors from within GA were qualified lead nuclear auditors prior to starting the internal audits.	Change requested by external auditors. They wanted written proof that Internal Auditors from within GA were trained in the QA procedures prior to starting the internal audits.	Needed to reference a specific Quality Division Instruction requiring training.	Need to keep the org chart updated	Needed to cohance the definition of R&D to include development work as projects work on developing products to bring up to commercial tase.	Reason for the change
Clarification that does not reduce commitments.	Meets \$71,135	Meets §71.105. Better documents training.	Meets §71, 105. Better documents training,	Mees § 71.105. Better documents the training requirement.	Meets § 71.103	Meets \$71.105. Provides a more inclusive level of quality history and degree of standardization to the work scope.	Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

Clarification that does not reduce commitments.	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Instructions, Procedures, and Drawings	6/272016	ы	QP-5
Meets \$11.109	Updated the section on reviewing PRS to being up to date with SAP practices.	4.2.3 PR Review. Using the PR Worldow process for Network charge numbers, the SAP system automatically routes the PR to obtain a review by the organizant quality engineer to assure consideration and/or inclusion of appropriate quality requirements including quality denses, and approval is electroclassly documented on the PR. Dealled instructions for procurement document review and approval are provided in QDI 4.7 "Procurement Document Review." To et PRs using internal work order numbers, Receiver Cost Center (Rec. CCtr) and Receiver Order (Rec. Order) charge numbers, the Quality Systems Manager, or designee, or the Nuclear Quality Manager or designee, has make a request to Finance to be placed on work flow for those charge numbers.	3.2.3 because 4.2.3	3.2.3 PR Review. Using the PR Workflow process for Nework charge numbers, the SAP system automatically routes the PR to obtain a review by the cognizant quality engineer to assure consideration and/or inclusion of appropriate quality requirements. Quality engineer review and approval is electronically documented on the PR. The buyer or performing department is then responsible to insure that required quality engineer reviews and approvals are obtained at all subsequent steps in the producement cycle. Detailed instructions for producement comment review and approval are provided in QDI-4-2, "Procurement Document Review." For PRs using internal work order numbers, Receiver Cost Center (Rec. COrt) and Receiver Order (Rec. Order) charge numbers, QA review is not automatic, but occurs only if the PR initiator directly notifies the QA engineer of the existence of the PR.	Procurement Document Control	6/272016	ਖ਼	QP.4
Clarification that does not reduce commitments.	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Procurement Document Control	6/27/2016	B	QP-4
Clarification that does not reduce commitments.	Added Form #s and QDI W_{∞} . Needed to identify which forms and instruction applied to this procedure.	4.15.5 Design information transmitted across internal interfaces shall be documented on the Document Distribution List (G.A Form No. GA 114). Design information transmitted from suppliers to GA shall be documented on the Supplier Data Transmittal (GA Form No. GA 2514, see QD17-7) when invoked in the purchase order. Design information transmitted across external interfaces shall be in accordance with contractual requirements.	3.15.5	3.15.5 Design information transmitted across internal interface shall be documented on the Document Distribution List (Form No. GA. 14.). Design information transmitted from suppliers to GA shall be documented on the Supplier Data Transmittal (Form No. GA. 25.14) when invoked in the purchase order. No. GA. 25.14) when invoked in the purchase order. Design information transmitted across external interfaces shall be in accordance with contractual requirements. The designated publishing authority shall control transmitted information as well as the record(s) of review. Transmittals shall identify the status of the design information or document provided and, where necessary, identify incomplete items	Design Control	\$/27/2016	œ	Qp.3
Mees \$71.105. Provides a more inclusive level of quality history and degree of standardization to the work scope.	Needed to enhance the definition of R&D to include development work as projects work on developing products to bring up to commercial use.	3. QA review is not required for research and development (R&D) design documents that are for Basic or Applied level R&D that are R&D released per PRPAM BP-4060. However, if a development level R&D document describes development work activities or results that will be used directly in the final design of safety-related components or systems, it shall be designated Q&L reviewed by Q& and production released per P/RPM BP-4040. (See Table 600 in NQA-1 2008/-1a-2009 Addends Part IV, Subpart 4.2, "Applicability to Research and Development Activities").		Section 3.6.1.2 Review Process 3. QA review is not required for research and development (R&D) design documents that are R&D released per the PRPM, EP-4060. However, if an R&D document describes work or results that will be used directly in the final design of afterly related components or systems, it shall be designated QALI, reviewed by QA, and production released per the PRPM, EP-4040.	Dසා්හු Control	<i>5/27/2</i> 016	ਯ	QP-3
Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisty the Applicable Requirements of Subpart H of 10CFR71	Reason for the change	Change	Changed Section	Previous	Title	Effective Date	Rev. No.	QPNo.

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QP-7	QP-7	QP-6	QP-5	QP-S	QP-5	QP-5	QPNo.
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414/2016	414/2016	6/272016	6/272016	6/272016	6/272016	6/272016	Effective Date
Control of Purchased Items	Control of Purchased Items	Document Control	Instructions, Procedures, and Drawings	Instructions, Procedures, and Drawings	Instructions, Procedures, and Drawings	Instructions, Procedures, and Drawings	Title
3.1.3 Evaluation by Survey. QA shall perform surveys to determine the capability of potential suppliers to satisfactorily control onformance of products and services to GA procurement requirements. Surveys shall evaluate the supplier's facilities, personnel, and QA Program implementation.	None	None	3.7.1 GA Designs/GA Approved Designs. GA products shall be constructed to released GA design specifications, GA drawings, and/or GA approved supplier design specifications and drawings (see QP ± and PRPM). Actual production work shall be accomplished to approved planning or assentibly procedures, based on such released design documents.	3.3.4 Each QAPD shall be reviewed annually by the cognizant quality engineer, and revised if necessary, to assue that it is current, correct, and in compilance with the latest contractual and regulatory requirements.	Sec. 3.3. The QAPD and revisions shall be approved by the Director, Quality Assurance, the responsible project manager, and the customer when contractually required. Customer approval may be achieved by mail or electronic mail.	3.2.2 QPs contained in the QAM require approval signature of the Director, Quality Assurance, and the Chief Operating Officer, Approval Signatures and date are indicated on the first page of each procedure.	Previous
Referenced QDI 7-2	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	3.7.1 Updated to include QDI 3-1	3.3.4 Added Memo from QE to Quality Systems Manager	Sec. 3.3,3 became Sec. 4.3.3	3.2.2 Updated COO to Senior Vice President	Changed Section
4.1.3 Evaluation by Survey. QA shall perform surveys to determine the capability of potential supplier to satisfactorily control combinance of products and services to GA procurrents requirements. Surveys shall evaluate the supplier's facilities, personnel, and QA Program implementation (Sec QDI 7-2, Supplier Surveys).	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	4.7.1 GA. Designs/GA Approved Designs. GA products shall be constructed to released GA design specifications, GA drawings, and/or GA approved supplied redsign specifications and drawings (see QP 3, QDI) 3-1, and the P/RPM). Actual production work shall be accomplished to approved plainting or assembly procedures, based on such released design documents.	4.3.4 Back QAED shall be reviewed annually by the cognizant quality engineer, and revised if necessary to assure that it is current, correct, and in compliance with the latest contractual and regulatory requirements. A memo sating the accomplishment of the review and any revision requirements, is written to the Quality Systems Manager.	4.3.3 The initial QAPD and revisions shall at a minimum be approved by the author, the responsible project manager, the Manager Nucleur Quality Assurance, the Director, Quality Assurance and the customer when contractually required. Customer approval may be achieved by mail or electronic mail. Additional project specific signatures are added as required.	4.2.2 QPs contained in the QAM require approval signature of the Director, Quality Assurance, and the Sentor Vice President, EMS. Approval signatures and date are indicated on the first page of each procedure.	Change
Needed to reference a specific QDI that applies to this procedure.	Needed to show which QPs and QDI's applied to this procedure.	Needed to show which QPs and QDI's applied to this procedure.	Needed to reference a specific QDI that applies to this procedure.	Added a means to document the required reviews.	Management wanted to add the Manager of Nuclear Quality Assurance to the approvals of QAPDs.	Need to keep the org titles updated	Reason for the change
§71.115 Enhances the commitment to approving suppliers.	Clarification that does not reduce commitments,	Clarification that does not reduce commitments.	Clarification that does not reduce commitments,	Enhances the commitments to §71.113	Enhances the commitments to §71.113	Meets \$71.103	Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

4/14/2016 Inspection None	6/27/2016 Control of Processes None	6272016 Identification and None Control of Items	414/2016 Control of 3.1.7.2 Supplier evaluation may be waived when it is rocustance with a supplier or automate with a supplier or services, but is not listed on the QA ASL. In such instance, specific provisins to assure full ompliance with the quality requirements whether beginning fabrication or services, must be specified on the purchase order. The purchase order must be approved by the Director, Quality Assurance.	Control of 3.1.6 Surveys, Evaluations, and Audits by Others. 3.1.6 The services of others may be engaged to perform surveys, evaluations, and audit when they have been reviewed and approved by GA QA. Review, and approval of the services of others include GA QA verification of the individual's qualifications for performing the evaluation, and GA QA approval of the surveys(audit plan, checkists; and final report. 3.1.6.2 Surveys, evaluations, or audits performed by consortiums of multiple companies or some government agencies (e.g., NRO) of the company may be used providing GA QA verification of the individuals' qualifications for performing the evaluation, and GA QA approval of the survey/saudit plan, checkists, and final report.	Effective Date Title Previous
Added New Section : Applicable QP's and QDI's and adjusted mumbering sequence	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	3.1.7.2	e · · · · · · · · · · · · · · · · · · ·	Changed Section
Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	4.1.7.2 Supplier evaluation may be evalved on a one-time basis when it is necessary to place a procurement with a supplier or customer who will provide satity-related items or services, but is not listed on the QA ASL. In such instances, specific provisions to assure full compliance with the quality requirements before beginning fibrication or services, must be specified on the purchase order. The purchase order must be approved by the Director, Quality Assurance. Should additional procurements be needed from the same company, the company shall be audited by QA prior to future purchases.	4.1.6. Surveys, Evaluations, and Audits by Others (Third Party Audits). Requested by external auditors. This change elaborat 4.1.6.1 The services of others may be engaged to perform surveys, enduations, and audits when they have been reviewed and approved by GN-audits by others for use in qualifying a supplier to be A. Review and approval of the services of others include: 1) A lead unclear auditor in GA QA reviews and accept the group s'company s'government agencies audit package, to determine it fin supplier is qualified bot the NTM division's particular needs; 2) The audit package meets for equivements of an equivalent QA audit of the supplier's Quality Assurance Program, and 3) at least one of the team of auditors is qualified as a lead nuclear auditor and the remaining audit team members are legitimate auditors or techniques. 4.1.6.2 Surveys, evaluations, or audits performed by consortiums of multiple companies (e.g., Wastinghouse, etc.) or some government agencies (e.g., NLPIC, etc.), individual partner companies (e.g., Wastinghouse, etc.) or some government agencies (e.g., NL, NLC, etc.) may be used by GA. TP ASL, provided the consortium, company, or government agencies willing to provide the company. The questions/subject areas on the Third Parry Audit is publication to the scope of the third parry audit is equivalent to the scope of goods or services to be provided to GA by the audited company. The questions/subject areas on the Third Parry Audit is publication of heacklist in QDI 7-2, may be used to assist in qualifying a supplier to be placed on the GA QA TP ASL, provided the consortium, company or government agencies of a companies receive a copy of all assessment of this procedure in that member companies receive a copy of all assessment of the supplier are acceptable for meeting the requirements of this provided to assist in qualifying a supplier to be placed on the GA QA TP ASL. For example, the Nuclear Industry Assessment Checklist, and all identified fundations for performances of audits, all	Change
Needed to show which QPs and QDI's applied to this procedure.	Needed to show which QPs and QDI's applied to this procedure.	Needed to show which QPs and QDI's applied to this procedure.		Requested by external autitions. This change elaborates on the requirements for reviewing and accopying third party and its by others for use in qualifying a supplier to be approved by GA as qualified to be placed on the GA safety related Approved Suppliers List.	Reason for the change
Clarification that does not reduce commitments,	Clarification that does not reduce commitments.	Clarifornion that does not reduce commitments,		\$71.15 Enhances the commitment to approving suppliers.	Basis for Constuding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

Clarification that does not reduce commitments,	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Operating Status	8/26/2016	В	QP-14
Clarification that does not reduce commitments,	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section : Applicable QP's and QDI's and adjusted numbering sequence	None	Handling, Storage, and Shipping	8/26/2016	ш	QP-13
Clarification that does not reduce commitments,	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Control of Measuring and Test Equipment	8/26/2016	œ	QF-12
§71,123 Enhances the commitment to this section.	Needed to increase the documentation requirements, especially to include identification of the M&TE used during testing.	4.8.1 A description of the test, referencing the test specification, the test plan, the test procedures, test equipment identification, and location. Description of the equipment used and serial numbers. MERE used in executing the test procedure(s) including the Asset No. and the Calibration Due Date. 7. Description of the test parameters and test results (See Parn. 3.9 below). 8. Signature of the Tester.	Sec. 3.8.1	3.8.1 3.8.1 1. A description of the test, referencing the test procedure number, revision, test equipment identification, and location. 5. Description of the equipment used and serial numbers, for the test parameters and test results (See Para, 3.9 below). 7. Signature of the Tester.	Test Control	4/14/2016	ਲ	QP-11
§71.123 Enhances the commitment to this section.	Needed to enhance the requirements in QP-11 and reference a specific QD1 that applies to this procedure.	4.3.5 Test procedures may be prepared by the supplier for those tests specified to be performed at the supplier's facility. GA shall specify the perinent requirements of this QP and QDII 4-1, "Standard Quality Clauses," in purchase orders to the supplier. The purchase orders for auch tests shall require the contractor to submit test procedures to GA for acceptance prior to testing. The test procedures, upon receipt at GA, shall be processed as required in QP-3 for supplier design documents.	Sec. 3.3.5	3.3.5 Test procedures may be prepared by the supplier for those tests specified to be performed at the supplier's facility. OA, shall specify the pertinent requirements of this QP in purchase orders to the supplier. The purchase orders for such tests shall require the contractor to submit test procedures to GA for acceptance prior to testing. The test procedures to GA, shall be processed as required in QP-3 for supplier design documents in.	Test Control	4/14/2016	ㅂ	QP-11
Clarification that does not reduce commitments.	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section : Applicable QP's and QDI's and adjusted numbering sequence	None	Test Control	4/14/2016	ы	QP-11
Enhances the commitment to this section. \$71.135	Wanted to start including additional records for more with a disposition complete data packages.	4,12 4, A list of all NRs or Supplier's Disposition Requests with a disposition of "Repair" or "Use As Is."		3.12 4. Type of observation (as applicable, note exactly what was verified, witnessed, etc.).	Inspection	4/14/2016	ta	QP-10
Increases meeting the requirements in \$71.125	Added to document which specific M&TE watwere used during inspecions to improve traceability in the future in the event of an M&TE calibration/out-of-to-tenance issue	4.4.3 When inspection is to be performed, the scope and type of traspections to be performed, the characteristic to be inspected, the inspection methods, and the acceptance criteria shall be specified in inspection planning (see QP 5) provided by the cognizant quality crapitors. Inspection results, including the M&TE used during the inspection, shall be documented on the applicable inspection plant, or the integrated shop traveler.	3.4,3	3.4.3 When inspection is to be performed, the scope and type of inspecding to be performed, the characteristics to be inspected, the inspection methods, and the acceptance criteris shall be specified in inspection planning (see QP 3) provided by the cognizant quality engineer. Inspection results shall be documented on the applicable inspection plan, or the intergranded shop traveler.	Inspection	4/14/2016	២	01-30
Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71	Reason for the change	Change	Changed Section	Previous	Title	Effective Date	Rev. No.	QP No.

Enhances requirements in \$71.131	Added the reference to the specific QDI that the controls the use of the Nonconformance Report form.	4.1 Nonconforming Items The process for maintaining control of nonconforming items and for obtaining definitive corrective action by means of the Nonconformance Report (NR, Form No. GA 663) is specified in QP I5 (also see QDI 15-1).	3.1 Added reference to QDI.	3.1 Noncombining Items The process for maintaining control of nonconforming items and for obtaining definitive corrective section by means of the Noncombinance Report (NR, Form No. GA 663) is specified in QP 15.	Corrective Action	4/14/2016	O	QP-16
Clarification that does not reduce commitments,	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Corrective Action	4/14/2016	C	QP-16
Embanoes requirements in \$71.131	Change requires the chair of the MRB to give the signed SDR to the PQE for follow up, if that person has it when it is completed and signed.	4.12.2 Purchasing shall receive che SDR from the supplier and refer it to the cognizate PQE. The PQE shall then refer the SDR to the applicable MRB, whose members shall review the request and approve, disapprove, or provide requested information in accordance with QP-15 for noncomforming items or QP-3 for design changes. The MRB Chair shall recum the signed SDR to the PQE and Purchasing for transmittal to the supplier.	3.12.2	3.12.2 Purchasing shall receive the SDR from the supplier and refer it to the cognizant quality engineer. The quality engineer and design engineer, and members of the MRB, if necessary, shall review the request and approve, disapprove, or provide requested information in accordance with QP-13 for noncombining items or QP-3 for design changes. The quality engineer shall return the signed SDR to Purchasing for transmittal to the supplier.	Control of Nonconforming Items	4/14/2016	ᅜ	QP-15
Enhances requirements in §71.131	Change was made to identify the company policies which contain the requirements for investigating and reporting 10CFR21 issues.	4.11.1 Discrepancies, which pertain to "Significant Deficiencies" or 10 CFR 21 type defects and nonconformances, are discussed in QP 16. The requirement for the reporting of 10 CFR 21 defects are found in Company Policies CP-207, 1200.207.	3.11.1	3.11.1 Discrepandes, which pertain to "Significant Deficiencies" or 10CFR21 type defices and noncombrmances, are discussed in QP 16.	Control of Nonconforming Items	4/14/2016	ы	QP-15
Enhances requirements in §71.131	Change was made to document the responsibility of investigating potential 10CFR21 problems.	4.8.2.3. The NCWG Chairperson is responsible to investigate IOCFR21 problems regarding defects of items performing a safety function (i.e. basic components).	Added Section 4.8.2.3	None	Control of Nonconforming Items	4/14/2016	to	QP-15
Enhances requirements in \$71.331	Change was requested by external auditors. They wanted written proof that the Chair of the Nucleur Compliance Working Group was indeed evidenting Nonconformances in light of the 10 CFR21 requirements and that the review was getting documented on the Nonconformance report forms.	4.8.1 MRB Membership. The MRB is a board of engineers, consisting of at least one project engineer and one quality engineer and the Nuclear Compliance Working Group (NCWG Chair). ARBs are chaired by the OA member. Engineering MRB members for each major hardware item shall be selected and documented by the appropriate design engineering functions. In the case of internal orders for QALI III forms via properly authorized service requests, the requestor shall be the engineering MRB member when no other documented selection is made. If required by contract, a customer representative is also a member of the MRB.	.a .bo .1	3,8.1 MRB Membership. The MRB is a board of orginiers, consisting of at least one project engineer and one quality engineer. MRB are chaired by the QA member. Engineering MRB members for each major hardware item shall be selected and documented by the appropriate design engineering functions. In the case of internal orders for QAL III items via properly authorized service enquests, the requestor shall be the engineering MRB member when no other documented selection is made. If required by contract, a customer representative is also a member of the MRB.	Control of Nonconforming Items	4/14/2016	ω	QP-15
Clarification that does not reduce commitments.	Needed to document the responsibility by the QARC to issue specific types of numbers used for tracking and identification purposes.	4.3.1.3 The QA Records Center (QARC) administrator is responsible for issuing blocks of Production Control (PC) serial numbers and Nonconformance Report numbers to Project Quality Engineers (PQE), PQEs are responsible for maintaining a log, which indicates the status of all project NRs and NOD tags, including serialized number, disposition, and the close-out date.	3.3.1.3	3.3.1.3 The QA Records Center (QARC) administrator is responsible for itsuling blocks of serial numbers and noncomformance report forms to Project Quality Engineers. Project Quality Engineers are responsible for maintaining a log which indicates the status of all NRe and NOD tags including serialized number, disposition, and the close-out date.	Control of Nonconforming Items	4/14/2016	Б	QP-15
Clarification that does not reduce commitments.	Needed to show which QPs and QDI's applied to this procedure.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	None	Control of Nonconforming Items	4/14/2016	ᅜᅺ	QP-15
Basis for Concluding that the Revised Program Inverporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71	Reason for the change	Change	Changed Section	Previous	Title	Effective Date	Rev. No.	QP No.

QP-17	QP-16	QP-16	QP-16	Q.P-16	QP-16	QPNo.
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8/26/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	4/14/2016	Effective Date
Quality Assurance Records	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Corrective Action	Title
None	3,11 IOCRR21-Type Defects and Noncompliances Amy GA employee who becomes aware of what appears to be a defect in a basic component that has been supplied for use in an NRC-licensed facility, or a noncompliance within the meaning of IOCR21, (i.e., a do-lation from the technical requirements included in the procurement occurrent or a noncompliance with a rule or license provision - see Definitions) that in each case (i.e., deviation or noncompliance) relates to or could create a substantial safety hazard at an NRC-licensed facility, shall report it immediately to his or far supervisor and to the Chairman, Nuclear Defects and Noncompliance Committee who shall proceed in accordance with Company Folioy CP-212.	3.10.1 Any employee of GA who detects what the employee considers to be a "significant deficiency," (See Definitions) shall promptly inform the Director, Quality Assurance and furnish all available pertinent facts regarding the problem. When a supplier detects such discrepancies, be shall inform the buyer, who shall inform the Director, Quality Assurance.	Section 3.5.2 1. Identification of the root cause of the deficiency as it exists in that organization's area of responsibility.	3.4.4 If the individual initiating the CAR is within QA, the Quality Systems CAR administrator shall log QA, the Quality Systems CAR administrator shall be problem and assign a CAR number. The initiation the problem and assign a CAR number of the CAR in accordance with the instructions on the reverse of the CAR, identify the CAR with the assigned number, and forward it to Quality Systems for distribution, completion, and closeout.	3.1. Significant roncompliance with systems and procedures affecting quality may be discovered under circumstances other than formal audit or impection. All IQA employees have the authority to request corrective action on quality-related matters. Anyone who discovers a system noncompliance (e.g., an incividual, organization, or supplier which consistently does not follow established procedures) may initiate corrective action in accordance with Section 3.4. If the discovering function is outside QA, the discovering function is outside QA, the discovering incividual's manager may notify Quality Systems and in Section 3.4.	Previous
Added New Section : Applicable QP's and QDI's and adjusted munbering sequence	3.11	3.10.1	3.5.2	3.4.4 Added "Or Designee"	33.1	Changed Section
Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	All 10 CPR 21-Type Defices and Noncompliances Any GA, employee who becomes aware of what appears to be a deficet in a basic component that has been anyolided for use in an NRC-liferested facility, or a noncompliance within the meaning of 10 CPR 21 (1, e., a deviation from the technical requirements included in the procurement document or a noncompliance with a rule or license provision - see Definitions in the impoducation to this Quality Assumance Manuell), that in each case (1.e., deviation or monomyliance) relatives to or could create substantial safety hazard at an NRC-licensed facility, shall report it immediately to his or the supervisor and to the Chairman, Nuclear Defices and Noncompliance Committee who shall proceed in accordance with Company Policies CP-207, and CP-1200.207 (see QDI 16-4).	4.10.1 Any employee of GA who detects what the employee considers to be a "significant decleters," (See Definitions in the Introduction in this QA Manual) shall promptly inform the Director, Quality Assurance and furnish all available pertinent facts regarding the problem. When a supplier detects such discrepancies, he shall inform the buyer, who shall inform the PQE and the Director, Quality Assurance.	Section 4.5.2 1. Identification of the root cause of the deficiency as it exists in that organization's area of responsibility (see QDI 16-7).	4.4.4 If the individual initiating the CAR is within QA, the Quality Systems Manager, or designer, shall log the problem under the assigned CAR number. The initiator shall proque the applicable sections of the CAR in accordance with the instructions on the reverse side of the CAR, (QDI 16-5), Identify the CAR with the assigned number, and forward it to the Quality Systems Manager, or designee, for distribution, completion, and closeout.	4.3.1 Significant noncompliance with systems and procedures affecting quality may be discovered under circumstances other than formal audit or inspection. All GA employees have the authority to request corrective action on quality-related matters. Anyone who discovers a system monompliance (e.g., an individual, organization, or supplier which consistently does not follow established procedures) may initiate corrective action in accordance with Section 4.4. If the discovering function is outside QA, the discovering individual's manager may notify Quality Systems and request that Quality Systems take the action described in Section 4.4	Change
Needed to show which QPs and QDI's applied to this procedure.	Updated to include references to definitions, company policy, and specific QDIs.	Updated the definitions section and included additional personnel when reporting deficiencies.	Added the reference to the specific QDI that requires identification of the mot cause of a deficiency.	Change was made to provide for specific individuals to perform the work, as there is no longer a CAR Administrator.	Change made to update a Cross reference Section number	Reason for the change
Editorial change that does not reduce commitments.	Clarification that does not reduce commitments.	Does not reduce commitments, but is an administrative improvement.	Clarification that does not reduce commitments.	Does not diminish requirements in \$77.133 by making sure the work is still performed.	Clerification that does not diminish any requirements in \$71,133	Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

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	4/14/2016	4/14/2016	4/14/2016	4/14/2016	8/26/2016	8/26/2016	Effective Date
	Audits	Audits	Audits	Audits	Quality Assurance Records	Quality Assurance Records	Title
supervision of Lead Auditors qualified in ecoordance with QP-2. Lead Auditors shall be assigned by the Manager, Quality Systems; however, Lead Auditors who are to perform audits of Quality Systems activities shall be assigned by the Director, Quality Assurance.	3.5.1 Audits shall be performed by Lead Auditors or by auditors/auditor trainees under the direct	3.4.1 Audit Plan. The Lead Auditor shall develop, document, and utilize an audit plan for each audit. This plan shall identify the audit opicative, acope, requirements, audit personnel, activities to be audited, organizations to be notified, applicable documents, schedule, and checklists. The plan shall take time account the results of any relevant prior audits, special concerns reported to Quality Systems. The audit checklists shall contain the specific requirements against which the applicable QA Program elements are to be evaluated.	3.3.1 Elements. Each element of the GA QA Program and each organization involved in astRy-related activities shall be abcidied for audit at least once each year or at least once during the life of the activity, whichever is shorter. NonsatRy-related quality activities shall be audited at a frequency commensurate with the status and importance of the activities. In intervening years, an annual evaluation of the supplier shall be performed and documented. To ternain on the QA Approved Suppliers List, each supplier shall be audited at 3 year intervals.	Nane	3.11.3 Completed quality assurance records shall be maintained, preserved, and protected in accordance with ASME NQA 1 from the time they are received until they are transmitted to the outstorner, or if retained at GA, until the established retention time expires.	3.9.2.Q Quality Assurance Records Center (QARC). The QARC manages Quality Assurance (QA) records, provides electronic seaming, storage, protection, and retrieval services for selected documents generated/processed by QA (e.g., inspection documents, procedures, meantiferating pleaning, personnel qualifications, certifications, etc.), and provides storage, protection, and extrieval services for legacy microfilmed and scanned QA records.	Previous
Nuclear Auditor	Sec. 3.5.1 Updated Lead Auditor to Lead	Sec. 3.4.1 Change from Lead Auditor to Lead Nuclear Auditor	Sec 3.3.1	Added New Section: Applicable QP's and QDI's and adjusted numbering sequence	3.11.3	3,9.2.2	Changed Section
qualified in secondance with QP-2. Lead Nuclear Authors shall be assigned by the Manager, Quality Systems; however, Lead Nuclear Authors who are to perform audits of Quality Systems activities shall be assigned by the Director, Quality Assurance.	4.5.1 Audits shall be performed by Lead Nuclear Auditors or by auditors/auditor trainees under the direct supervision of Lead Auditors	4.4.1 Audit Plan. The Lead Nuclear Auditor shall develop, document, and utilize an audit plan for each audit. This plan shall identify the audit objective, scope, requirements, audit plans plan plan lidentify the audit objective, scope, requirements, audit personnel, artivities to be audited, organizations to be notified, applicable documents, schedule, and checklists. The plan shall take into account the results of any relevant prior audits, special concerns reported to Quality Systems. The audit checklists shall contain the specific requirements against which the applicable QA Program elements are to be evaluated.	4.3.1 Elements. Each element of the GA QA Frogram and each organization involved in safety-related envirties shall be scheduled for audit at least none each year or at least none denigh to hife of the activity, whichever is shorter. Nonsafety-related quality activities shall be audited at a frequency commensurate with the status and importance of the activities. In intervenity years, an annual evaluation of the supplier shall be performed and documented. To remain on the QA Approved Suppliers List, each safety-related supplier shall be audited at 3 year intervals.	Added a list of the applicable Quality procedures and the Quality Division instructions that apply to the QP	4.11.3 Completed quality assumnce records shall be maintained, preserved, and protected in accordance with ASME NQA I. Requirement 17, from the time they are received until they are transmitted to the customer, or if retained at GA, until the established retention time expires.	4.9.2.2 Quality Assumace Records Center (QARC). The QARC Administrator manager Quality Assumace (QA records, provides electronic seaming, a tomage, protection, and review after selected documents generated/processed by QA (e.g., inspection documents, procedures, manufacturing planning, personnel qualifications, certifications, excitations, and provides storage, protection, and retrieval services for legacy microfilmed and scanned QA records.	Change
	Added the word nuclear to differentiate the NQA-1 nuclear auditors from the ISO auditors.	Added the word nuclear to differentiate the NQA-1 nuclear auditors from the ISO auditors.	Added the words to identify specifically which suppliers get audited at three year intervals.	Needed to show which QPs and QDI's applied to this procedure.	Added Requirement 17 as the source of the requirement.	Added title of Administrator	Reason for the change
	Clarification that does not reduce commitments.	Clarification that does not reduce commitments.	Clarification that does not reduce commitments.	Clarification that does not reduce commitments.	Clarification that does not reduce commitments.	Editorial change that does not reduce commitments.	Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71

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Effective Date	4/14/2016	4/14/2016	4/14/2016	5/27/2016
Тије	Audis	Audits	Audits	Aderdum 1
Previous	3.5.2 Auditors and Lead Auditors shall be independent of, and shall have no direct responsibility for, the activity to be audited. They shall have sufficient authority and organizational feedom to make the audit process meningful and effective.	3.5.3 Selection of Audit Team. The audit team shall be identified prior to the beginning of the audit, and shall consist of one or more audiors one being designated Lead Auditor who organizes and directs the audit. The audit team shall have experience, or training commensurate with, the scorpt, complexity, or special nature of the activities to be audited.	3.6.1 Notification and Pre Audit Conference. The auditor shall provide advance written notice to the management of the activities to be audited, and shall conduct and document pre audit conferences.	Not in previous version
Changed Section	Sec. 3.5.2 Updated Lead Auditor to Lead Nuclear Auditor	Sec. 3.5.3 Updated Lead Auditor to Lead Nuclear Auditor	Sec. 3.6.1 Updated Lead Auditor to Lead Nuclear Auditor	Definitions
Change	4.5.2 Auditors and Lead Nuclear Auditors shall be independent of, and shall have no direct responsibility for, the activity to be audited. They shall have sufficient authority and organizational freedom to make the audit process meaningful and effective.	4.5.3 Selection of Audit Team. The audit team shall be identified prior to the beginning of the audit, and shall consist of one or more auditors, with one bring designed the Lead Nuclear Audit or who organizes and directs the audit. The audit team shall have experience, or training commissurate with, the scope, complexity, or special nature of the activities to be audited.	4.6.1 Notification and Fre Audit Conference. The Lead Nuclear Auditor shall provide advance written notice to the management of the activities to be audited, and shall conduct and document pre audit conferences.	ntion: stricture, system, or component, or part thereof that clear Power Plant (NPP's) saffey function necessary to clear Power Plant (NPP's) saffey function necessary to grify of the reactor coolant pressure boundary; grify of the reactor coolant pressure boundary; shilly to shut down the reactor and maintain it in a safe antition; shilly to prevent or mitigate the consequences of accidents tresult in potential offsite exposures. I result in potential offsite exposures. Tresult in potential offsite exposures.
Reason for the change	Added the word nuclear to differentiate the NQA-1 nuclear Clarification that does not reduce commitments auditors from the ISO auditors.	Added the word nuclear to differentiate the NQA-1 nuclear Clarification that does not reduce commitments, auditors from the ISO auditors.	Added the word nuclear to differentiate the NQA-I nuclear auditors from the ISO auditors.	Definition was added due to the preparation of a new QDI titled "Commercial Grade Dedication"
Basis for Concluding that the Revised Program Incorporating the Change Continues to Satisfy the Applicable Requirements of Subpart H of 10CFR71	Clarification that does not reduce commitments,	Clarification that does not reduce commitments.	Clarification that does not reduce commitments.	Does not reduce commitments to the previously approved QA program. Enhances commitment to safety performance.