January 27, 2014
E-37213

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Director, Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety and Safeguards
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Subject: AREVA Internal Reorganization – Effect on Certificate of Compliance Ownership and Submittal for Approval of Revision 13 to the AREVA TN Quality Assurance Program Description Manual for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G; NRC Docket Numbers 71-9217, 71-9233, 71-9248, 71-9255, 71-9293, 71-9301, 71-9302, 71-9313, 71-9319, 71-9358, 72-1004, 72-1021, 72-1027, 72-1029, 72-1030

The purpose of this submittal is to address name changes on certain Certificates of Compliance (CoCs) due to AREVA's corporate reorganization within the United States (U.S.), and to submit for approval Revision 13 to the AREVA Inc. Quality Assurance Program Description Manual (QAPDM) for its operating division, AREVA TN Americas, for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G, which revisions reflect changes associated with that reorganization.

The reorganization involved only U.S. companies within the AREVA corporate organization, and involved no outside, third-party transferors or transferees. Transnuclear, Inc. was one of the AREVA companies affected by the reorganization. As part of the reorganization, AREVA NP Inc. acquired all of the outstanding shares of AREVA NC Inc., which was the former direct parent of Transnuclear, Inc., and AREVA NC Inc. was then dissolved. Transnuclear, Inc. was also dissolved, becoming part of AREVA NP Inc., which has subsequently been renamed AREVA Inc. At all times, the ultimate parent company, AREVA SA, has remained the same. There is no change to the ultimate control of AREVA Inc., and Transnuclear, Inc. operations are not substantially changed, only moved under another affiliate company with the same ultimate parent company.

The change involves a name change within the previously approved QAPDM from Transnuclear, Inc. to AREVA TN Americas, an operating division of AREVA Inc.

The daily operational controls for the implementation of the Quality Assurance Program under 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G are written within a set of implementing procedures that have been included in past inspections by the NRC. These procedures currently reflect the Transnuclear Inc. name but as revisions are required they will be updated with the name change. Any implementing procedures that have not been revised with the AREVA Inc. name toward the end of 2014 will be updated to reflect the AREVA Inc. name by December 31st, 2014.

The organizational name change became effective on January 1, 2014.

NMSS24
NMSS26

AREVA Inc.
7135 Minstrel Way - Suite 300 - Columbia, MD 21045 USA
Tel.: (410) 910-6900 - Fax: (410) 910-6902
us.areva.com/AREVATN

Regarding Revision 13 of the QAPDM for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G:

AREVA Inc. has reviewed the applicable requirements of 10 CFR Part 71 and 10 CFR Part 72, and the guidance provided in USNRC Regulatory Guide 7.10 (Revision 2), and concludes that the changes made to the QAPDM with Revision 13 do not constitute a reduction in program commitment.

A summary of the changes made in QAPDM Revision 13 is included as Enclosure 1. A copy of QAPDM Revision 13 is included for the USNRC approval as Enclosure 2. Please note that prior revisions of this QAPDM were approved by the USNRC under QA Program Approval Number 0250 / Docket Number 71-250 for use in accordance with the requirements of 10 CFR Part 71.

Please contact Tim Kindelberger, Director - Quality Assurance (410-910-6924) if you require additional information regarding this submittal for approval.

Regarding Affected CoCs:

The CoCs in question were issued to Transnuclear, Inc. These CoCs should now be issued to:

AREVA Inc.
7135 Minstrel Way, Suite 300
Columbia, Maryland 21045

Based on recent discussions with NRC staff regarding this reorganization, AREVA Inc. understands that the CoCs issued under 10 CFR Part 71 will be revised to indicate issuance to AREVA Inc., at the address above. Enclosure 3 provides a list of the CoCs for which this should occur, with reference to any CoC revision applications which are currently under NRC review. Enclosure 3 also includes reference to any U. S. Department of Transportation Competent Authority Certifications (CACs) which reference these CoCs, and recommendations for allowing use of previous CoC revisions for certain periods of time, in order to allow commensurate revisions to those CACs.

AREVA Inc. understands that CoCs issued under 10 CFR Part 72 will include the change to indicate issuance to AREVA Inc., at the address above, at the next opportunity associated with a requested CoC amendment. Enclosure 4 provides a list of the CoCs for which this should occur, with reference to any CoC amendment applications which are currently under NRC review.

I certify that all records associated with these 10 CFR Part 71 CoCs and 10 CFR Part 72 CoCs will continue to be controlled and managed at the same location which applied under Transnuclear, Inc.

Please contact Don Shaw, Director – Regulatory Affairs (410-910-6878) if you require additional information regarding these CoCs.

Sincerely,

Michael V. McMahon
Senior Vice President, AREVA TN Americas

Enclosures:

1. Summary of Changes Incorporated into QAPDM Revision 13
2. Copy of Revision 13, AREVA TN Quality Assurance Program Description Manual (QAPDM) for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G
3. List of 10 CFR Part 71 Certificates of Compliance (CoCs) Shown as Issued to Transnuclear, Inc., With Associated Revision Applications Currently Under NRC Review, any Associated U. S. Department of Transportation Competent Authority Certifications, and Recommendations for Continued Use Periods for Previous CoC Revisions
4. List of 10 CFR Part 72 Certificates of Compliance Shown as Issued to Transnuclear, Inc., With Associated Amendment Applications Currently Under NRC Review

c: (w/enclosures)

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Summary of Changes Incorporated into QAPDM Revision 13

1. Throughout the complete QAPDM, the name of Transnuclear Inc. is changed to AREVA Inc.

2. The QAPDM includes discussion regarding applicability to AREVA TN Americas, an operating division of AREVA Inc.

3. The title of President & CEO is changed to Senior Vice President, AREVA TN Americas.

4. The title of Chief Operating Officer is changed to Vice President and Chief Operating Officer, AREVA TN Americas.

5. Paragraph 1.6 is revised to clarify that apply to quality related purchasing activities.

6. The title of Vice President, Operations is changed to Vice President, Technical Services, AREVA TN Americas.

7. Minor editorial clarifications regarding dispositions of nonconforming conditions.

8. The organization chart is updated showing the new titles discussed above, an indirect report of the Senior Vice President, BUL to the Senior Vice President, Back End Business Group AREVA Inc., and a direct reporting line of the Senior Vice President, Back End Business Group AREVA Inc. to the President & CEO, AREVA Inc.

Copy of Revision 13, AREVA TN Quality Assurance Program Description Manual (QAPDM) for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G

(29 pages)

AREVA

AREVA Inc.
Quality Assurance Program Description Manual

For

10 CFR Part 71, Subpart H

And

10 CFR Part 72, Subpart G

Revision 13

Michael V. McMahon: Date: 23 Jan. 2014

Senior Vice President,
AREVA TN Americas

Jayant Bondre: Date 01/23/2014

Vice President & Chief
Operating Officer,
AREVA TN Americas

Timothy J. Kindelberger: Date: 1/23/2014

Director, Quality Assurance,
AREVA TN Americas

INTRODUCTION

The AREVA Inc. Quality Assurance Program Description Manual (QAPDM) for 10 CFR Part 71, Subpart H, and 10 CFR Part 72, Subpart G, has been developed as a means to describe the quality assurance requirements that apply to activities affecting quality associated with the design, licensing, procurement, fabrication, handling, shipping, cleaning, assembly, inspection, modification, testing, operation, repair, maintenance and lease of storage and transport systems for spent fuel and radioactive materials that are classified as important-to-safety and subject to the requirements of 10 CFR Part 71 and/or 10 CFR Part 72; associated Nuclear Regulatory Commission (NRC) Certificate(s) of Compliance (CoCs), Department of Energy (DOE) CoCs or Department of Transportation (DOT) Competent Authority Certifications. This QAPDM applies to AREVA TN Americas associated activities. AREVA TN Americas is an operating division of AREVA Inc.

This QAPDM also satisfies the provisions of 10 CFR Part 50, Appendix B and is applicable to activities affecting quality associated with items and services subject to the requirements of 10 CFR Part 50 that are classified as safety-related.

This QAPDM applies to the following AREVA Inc. locations and other service locations when required by customer contract provisions:

AREVA Inc. 7135 Minstrel Way Columbia, MD 21045	AREVA Inc. 357 & 367 Woodward Drive Aiken, SC 29803	AREVA Inc. 2101 Horn Rapids Road Richland, WA 99352

The AREVA Inc. Quality Assurance Program (QAP) is comprised of this QAPDM; the AREVA Inc. QAPDM for ASME Section III, Division 1 and Division 3 associated with AREVA TN Americas activities and associated implementing procedures. AREVA TN Americas implementing procedures are designed and administered to meet the applicable requirements of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B, ASME Section III, Division 1 (NCA 4000) / Division 3 (WA 4000) and ASME NQA-1.

AREVA Inc. maintains appropriate ASME Certificate(s) of Authorization for the design, fabrication and delivery of products in accordance with the requirements of the ASME QAPDM, which specifies additional ASME Code-related requirements that are applicable to ASME Code projects only.

STATEMENT OF QUALITY POLICY AND AUTHORITY

AREVA Inc. is engaged in the business of designing, licensing, certifying, testing, procuring, operating, shipping, testing, maintaining and leasing systems for the storage and/or transport of radioactive materials. This business carries with it the responsibility of protecting the health and safety of the public and workers from the deleterious effects of radiation. Therefore, it is the Policy of AREVA Inc. that all products and services must be delivered with the highest levels of quality consistent with the expectations of our customers, shareholders, and the government agencies, which regulate our activities.

In order to carry out this Policy, AREVA Inc. has established this Quality Assurance Description Manual (QAPDM) which complies with 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME NQA-1 and the QAPDM for ASME Section III, Division 1 and Division 3. Collectively, these manuals constitute the AREVA Inc. Quality Assurance Program (QAP). Compliance with this program is mandatory for all personnel performing quality affecting activities associated with items and services classified as important-to-safety or safety-related.

While the ultimate responsibility for compliance with the QAP rests with the Senior Vice President, AREVA TN Americas (SVP), every employee is expected to assume personal responsibility for performing their assigned work activities in accordance with the applicable requirements of the QAP and the implementing procedures in effect.

QAP requirements are invoked to the extent applicable upon suppliers to which AREVA Inc. Subcontracts quality affecting work classified as important-to-safety or safety-related.

The Vice President & Chief Operating Officer, AREVA TN Americas (VP & COO) is assigned the responsibility for implementing the requirements of the AREVA Inc. QAP consistent with this policy.

The Director, Quality Assurance, AREVA TN Americas (DQA) is assigned the responsibility for developing, maintaining and verifying execution of the QAP consistent with this Policy.

Michael V. McMahon:
Senior Vice President,
AREVA TN Americas

1.0 ORGANIZATION

1.1 Responsibility for compliance with the QAP resides ultimately with the Senior Vice President, AREVA TN Americas. QAP activities include those actions necessary to comply with the applicable requirements of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME Section III, Division 1 (NCA 4000) / Division 3 (WA 4000) and ASME NQA-1. When suppliers are used for performance of activities subject to the requirements of the QAP, AREVA TN Americas qualifies those organizations to ensure their capability to comply with applicable requirements; however, AREVA TN Americas retains the overall responsibility for the quality of those activities.

1.2 The SVP has full authority over all functions of the company, and is responsible for overall company policy and providing executive direction and guidance to senior management staff. Responsibility for implementing the QAP is assigned to the VP & COO and authority for developing, maintaining and verifying execution of the program is assigned to the DQA. Each organization within AREVA TN Americas is responsible for implementation of the program for their respective scope of responsibility.

1.3 The VP & COO reports to the SVP and has overall responsibility for the implementation of the QAP. This responsibility includes setting priorities, objectives and policies to ensure that activities subject to the requirements of the QAP are performed in accordance with the QAP.

1.4 The DQA reports to the SVP and is responsible for developing, maintaining and verifying execution of the QAP. The responsibilities assigned to this position include; administering the corrective action program, ensuring that QA staff is appropriately qualified, conducting audits, surveillances and inspections to verify that activities are conducted in accordance with QAP requirements, initiating corrective action requests when conditions or significant conditions adverse to quality are identified by QA staff and periodically reporting to the SVP and the VP & COO on the status and effectiveness of the program. The DQA and the Quality Assurance organization have:

1.4.1 Sufficient authority and organizational freedom to identify quality problems, require that corrective action be taken and verify corrective action effectiveness.

1.4.2 Sufficient independence from cost and schedule considerations when such considerations are opposed to safety.

1.4.3 The authority to stop unsatisfactory work and prevent its further processing, installation, use or delivery.

1.4.4 Access to all levels of management and records necessary to perform their assigned responsibilities.

1.4.5 The responsibility and authority to bring an issue to the SVP or the VP & COO for resolution if resolution of the issue cannot be achieved at a lower level of management.

1.4.6 Sufficient expertise and training in the field of Nuclear Quality Assurance to enable them to assess the quality functions in accordance with the applicable regulatory criteria, codes and standards invoked by the QAP. When required, members of the Quality Assurance organization are qualified for their responsibilities with supporting documentation of such qualification maintained as Quality Assurance Records.

1.5 The Directors of the Business Lines report to the SVP and are responsible for Project Management Functions subject to the requirements of the QAP.

1.6 The Director, Supply Chain / Purchasing reports to the Business Unit and communicates with the VP & COO on matters that apply to quality related purchasing activities, and is responsible for negotiating contracts and issuing procurement documents in support of engineering, fabrication, maintenance, test and other activities associated with storage / transportation systems and other related activities subject to the requirements of the QAP.

1.7 The Director, Regulatory Affairs reports to the VP & COO and is responsible for licensing functions and other related activities subject to the requirements of the QAP.

1.8 The Director, Operational Excellence reports to the VP & COO and is responsible for document control, records management, staff training and improvement initiatives focused on improving performance across the AREVA TN Americas organization.

1.9 The Vice President, Technical Services, AREVA TN Americas reports to the VP & COO and is responsible for Design Engineering, Fabrication Control, Transportation, Field Services & Operations and Fleet Asset Management functions associated with storage / transportation systems and other related activities subject to the requirements of the QAP.

1.10 Individual's assigned responsibilities under the QAP may delegate those responsibilities to others but retain the overall responsibility for ensuring compliance with the requirements of the QAP.

1.11 When used in this QAPDM, the position title of "Director" is used to generically describe a management position responsible for a function. Other terms such as "Manager" or "Vice President" may be used in implementing procedures to identify these positions.

1.12 The AREVA TN Americas organization for QAP Activities is included as Figure 1 in Section 20.0 of this QAPDM.

2.0 QUALITY ASSURANCE PROGRAM

2.1 General

2.1.1 AREVA Inc. has established a QAP consistent with the regulations and codes defined in the **Introduction** to this manual for the control of activities affecting quality in the areas of design, licensing, procurement, fabrication, handling, shipping, cleaning, assembly, inspection, modification, testing, operation, repair, lease and maintenance of storage and transportation systems for spent fuel and radioactive materials which are classified as important-to-safety or safety-related. The program ensures that activities affecting quality are accomplished under suitable controlled conditions and that prerequisites for given activities are satisfied.

2.1.2 The QAP is comprised of this QAPDM, the QAPDM for ASME Section III related activities and associated implementing procedures, all of which are designed and administered to meet the applicable requirements of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME Section III, Division 1 (NCA 4000) / Division 3 (WA 4000) and ASME NQA-1.

2.1.3 The QAP utilizes the guidance provided in United States Nuclear Regulatory Commission (NRC) Regulatory Guide 7.10 and NRC NUREG/CR-6407 for implementing program requirements for activities subject to the requirements of 10 CFR Part 71 and 10 CFR Part 72 in a graded fashion commensurate with safety significance. This grade approach is not utilized for items and services classified as safety-related and subject to the requirements of 10 CFR Part 50.

2.1.4 The **Statement of Quality Policy and Authority** directs all employees working on important to safety or safety-related activities and related quality affecting activities to comply with the provisions of the QAP.

2.1.5 The **Statement of Quality Policy and Authority** directs that the applicable provisions of the QAP be applied to activities affecting quality being performed at approved supplier locations for important-to-safety or safety-related items and services subcontracted by AREVA TN Americas.

2.1.6 AREVA TN Americas commits to complying with the provisions of 10 CFR Part 21.

2.1.7 More specific details or methods of implementing QAP requirements are defined in implementing procedures. Applicability of other quality standards, unique customer or project requirements, or other contract considerations may dictate the need to address unique project requirements that are not specifically covered by implementing

procedures. These other requirements or considerations are defined during the project planning process and implemented with project specific procedures, instructions or drawings.

2.1.8 Requirements for the review, approval, and control of implementing procedures, project plans and project specific procedures, instructions or drawings are defined in these implementing procedures.

2.2 Preparation and Control of the QAPDM for 10 CFR Part 71, Subpart H and 10 CFR Part 72, Subpart G

2.2.1 This QAPDM provides for the planning and accomplishment of activities affecting quality for items and services classified as important-to-safety or safety-related in a controlled manner.

2.2.2 This QAPDM and revisions thereof are approved by the SVP, the VP & COO and the DQA.

2.2.3 This QAPDM and all revisions thereof are subject to review and approval by the NRC. Following NRC approval, the implementation date is identified as the **Effective Date** on the cover of the QAPDM.

2.2.4 Revisions to this QAPDM shall be indicated by a vertical line in the appropriate margin except for minor editorial corrections. Extensive revisions that constitute a complete rewrite do not require the application of revision bars.

2.2.5 Controlled copies of this QAPDM are issued in accordance with the implementing procedures to identified controlled copyholders. The controlled copyholder is responsible for keeping their assigned manuals up-to-date.

2.3 Management Review of Quality Assurance Program

2.3.1 The DQA regularly evaluates the QAP for adherence to baseline commitments in scope, implementation and effectiveness. The DQA informs the SVP, the VP & COO, and other senior management personnel annually of the status and adequacy of the QAP.

2.3.2 Annually, a Management Audit of the QA organization is conducted by an organization independent of the AREVA TN Americas QA organization. An audit team appointed by the SVP performs the audit. The purpose of this audit is to assess the adequacy and effectiveness of those parts of the QAP for which the QA organization is responsible. The audit report is transmitted to management for correction of any observed deficiencies.

2.4 Indoctrination and Training

2.4.1 Procedures have been established to ensure that QAP indoctrination training is provided for employees who perform quality-affecting activities related to items and services classified as important-to-safety or safety-relate. Measures have been established to:

a. Identify personnel performing activities affecting quality,

b. Define indoctrination and training requirements,

c. Define documentation requirements.

2.4.2 When necessary, training in project unique quality requirements is provided by the appropriate Project Manager or other individuals knowledgeable in the subject matter. This training is conducted in accordance with approved procedures.

2.4.3 When required by applicable codes and standards, personnel are appropriately qualified and certified in accordance with approved procedures.

2.4.4 Proficiency of personnel who participate in QAP activities is maintained by continuing execution of their assigned responsibilities, retraining, reexamining, and/or recertifying, as appropriate. If it is determined by the DQA or other responsible management staff that an individual's capabilities are not in accordance with specified requirements, that individual is removed from that capacity until such time that the individual has been retrained and has demonstrated adequate capability for performing the activity.

2.4.5 Records of training, qualification and certification are maintained in accordance with the approved procedures to demonstrate compliance with training requirements.

2.4.6 Personnel performing audit activities are qualified in accordance with approved procedures. Personnel who are designated as Lead Auditors are certified by the DQA after confirmation that they meet applicable requirements for qualification. All records of personnel training, qualification and certification, including previous certifications used in support of current qualifications, are retained as QA Records. Capability demonstrations (tests) of Lead Auditors are documented.

3.0 DESIGN CONTROL

3.1 Procedures have been established to control design and licensing activities to ensure that:

3.1.1 Design and licensing activities are planned, controlled and documented.

3.1.2 Regulatory requirements, design requirements and appropriate quality standards are correctly translated into specifications, drawings and procedures.

3.1.3 Competent engineering personnel, independent of design activities, perform design verification. Verification may include design reviews, alternate calculations or qualification testing. Qualification tests are conducted in accordance with approved test programs or procedures under the most adverse design conditions.

3.1.4 Design interface controls are established and adequate.

3.1.5 Design, specification and drawing changes are reviewed and approved in the same manner as the original issue. In cases where a proposed design change potentially impacts licensed conditions, procedural controls ensure that licensing considerations are reviewed and complied with or otherwise reconciled by obtaining a revision to an existing NRC Certificate of Compliance or Competent Authority Certification for Radioactive Material Packages or evaluating the change in accordance with the requirements of 10 CFR Part 72.48 for Spent Fuel or High Level Waste and Greater than Class C Storage Casks and obtaining an amendment to the NRC Certificate of Compliance for the Storage Casks when determined necessary.

3.1.6 Design errors and deficiencies are documented, corrected and action to prevent recurrence taken when determined necessary.

3.1.7 Design organization(s) and their responsibilities and authorities are delineated and controlled through written procedures.

3.2 Materials, parts, equipment, and processes essential to the function of items that are important-to-safety or safety-related are selected and reviewed for suitability of application.

3.3 Computer programs used for design analysis or verification are controlled in accordance with approved procedures. These procedures provide for verification of the accuracy of computer results and for the assessment and resolution of reported computer program errors.

4.0 PROCUREMENT DOCUMENT CONTROL

4.1 Procedures have been established to ensure that procurement documents are prepared to clearly define applicable technical and quality requirements including codes, standards, regulatory requirements, commitments, and contractual requirements. These documents serve as the principal documents for the procurement of structures, systems and components, and related services for use in the design, fabrication, maintenance and operation, inspection, testing and leasing of storage / transportation systems and other items subject to the requirements of the QAP.

4.2 Procurement activities are performed in accordance with procedures that establish requirements for preparation, review, approval and control of procurement documents. Revisions to procurement documents that involve changes to technical and quality requirements receive the same level of approval as originally required.

4.3 The assignment of quality requirements to procurement documents for important- to-safety and safety-related items and services is administered and controlled in accordance with procedures. These procedure require consideration of the applicable provisions of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME Section III, ASME NQA-1 and other regulations, codes or standards as appropriate for the scope of the procurement.

4.4 AREVA TN Americas procurement documents require suppliers to pass on appropriate quality assurance program requirements to subtier suppliers.

4.5 AREVA TN Americas procurement documents include provisions that require suppliers to either maintain or supply those QA records that provide evidence of conformance to the procurement documents. Additionally, procurement documents designate those supplier documents required for submittal to AREVA TN Americas for review and/or approval.

4.6 AREVA TN Americas procurement documents include requirements for the right of access to supplier facilities for the purposes of audit, surveillance or inspections as determined necessary by AREVA TN Americas

4.7 When applicable, AREVA TN Americas procurement documents include the reporting requirements of 10 CFR Part 21 for the Reporting of Defects and Noncompliances.

5.0 INSTRUCTIONS, PROCEDURES AND DRAWINGS

5.1 Procedures have been established to ensure that activities affecting quality are controlled in accordance with appropriate instructions, procedures and drawings necessary for complying with the applicable criteria of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME Section III or ASME NQA-1, for items and services classified as important-to-safety or safety-related.

5.2 Instructions, procedures and drawings are developed, reviewed, approved, utilized and controlled in accordance with the requirements of approved procedures. These instructions, procedures and drawings include appropriate quantitative and qualitative acceptance criteria.

5.3 Changes to instructions, procedures and drawings, receive the same level of review and approval as originally required.

5.4 Compliance with these approved instructions, procedures and drawings is mandatory for all personnel performing activities subject to the requirements of the QAP.

6.0 DOCUMENT CONTROL

6.1 Procedures have been established to control the issuance of documents that prescribe requirements for activities affecting quality associated with items or services classified as important-to-safety or safety-related to ensure adequate review, approval, release, distribution, and use of documents and their revisions. Controlled documents may include, but are not limited to:

6.1.1 Design specifications

6.1.2 Design and fabrication drawings

6.1.3 Special process specifications and procedures

6.1.4 QA Program Description Manuals and implementing procedures

6.1.5 Operations, Maintenance and Test procedures

6.2 Changes to documents, which prescribe requirements for important-to-safety or safety-related activities, are reviewed and approved by the same organization that performed the initial review and approval, or by qualified responsible organizations.

6.3 Documents that prescribe requirements for important-to-safety or safety-related activities are reviewed and approved for technical adequacy and inclusion of appropriate quality requirements prior to approval and issuance.

6.4 Measures are taken to ensure that only current documents are available at the locations where important-to-safety or safety-related activities are being performed. These measures include controls for electronic records when appropriate.

7.0 CONTROL OF PURCHASED MATERIAL, EQUIPMENT AND SERVICES

7.1 Procedures have been established to ensure that purchased material, equipment and services conform to procurement documents.

7.2 Procurement documents are reviewed and approved by authorized personnel for acceptability of proposed suppliers based on the quality requirements of the items/services being purchased.

7.3 Approved suppliers are listed on the Approved Suppliers List (ASL) for the items and/or services they provide. The ASL is controlled in accordance with approved procedures.

7.4 As required, audits and/or surveys are conducted to determine supplier approval. These audits/surveys are based on one or all of the following criteria:

7.4.1 The supplier's capability to comply with the requirements of 10 CFR Part 71, Subpart H; 10 CFR Part 72, Subpart G; 10 CFR Part 50, Appendix B; ASME Section III, ASME NQA- 1, and other regulations, codes or standards that are applicable to the scope of work to be performed.

7.4.2 A review of previous records to establish the past performance of the supplier.

7.4.3 A survey of the supplier's facilities and review of the supplier's QA Program to assess the adequacy and verify implementation of quality controls consistent with the requirements being invoked.

7.5 Qualified personnel conduct audits and surveys. Audit/survey results are documented and retained as Quality Assurance Records. Suppliers are re-audited and/or re-evaluated at planned intervals to verify that they continue to comply with quality requirements and to assess the continued effectiveness of their QA Program. Additionally, periodic evaluations are performed of supplier quality activities to verify implementation of their QA Program.

7.6 Suppliers are required to provide objective evidence that items or services provided meet the requirements specified in procurement documents. Items are properly identified to appropriate records that are available to permit verification of conformance with procurement documents. Any procurement requirements not met by suppliers are reported to AREVA TN Americas for review and approval. These conditions are reviewed by technical and quality personnel to ensure that they have not compromised the quality of the item or service.

7.7 Periodic surveillance of supplier in-process activities is performed as necessary, to verify supplier compliance with the procurement documents. When necessary, the need for surveillance is noted in approved quality or project planning documents, and surveillances are performed and documented in accordance with approved procedures. Personnel performing surveillance of supplier activities are trained and qualified in accordance with approved procedures.

7.8 Quality planning for the performance of source surveillance, test, shipping and/or receiving inspection activities to verify compliance with approved design and licensing requirements, applicable regulatory criteria, procurement document requirements, or contract specifications is performed in accordance with approved procedures.

7.9 For commercial "off-the-shelf" items or services, where specific quality controls appropriate for nuclear applications cannot be imposed in a practical manner, additional quality verification is performed to the extent necessary to verify the acceptability and conformance of the items to procurement document requirements. When dedication of a commercial grade item or service is required for use in an important-to-safety or a safety-related application, such dedication is performed in accordance with approved procedures.

8.0 IDENTIFICATION AND CONTROL OF MATERIALS, PARTS AND COMPONENTS

8.1 Procedures have been established to identify and control materials, parts and components. These procedures ensure identification of items by appropriate means during fabrication, installation and use of the items and prevent the inadvertent use of incorrect or defective items.

8.2 Requirements for identification are established during the preparation of procedures and specifications.

8.3 Methods and location of identification are selected so as not to adversely affect the fit, function or quality of the items being identified.

8.4 Items having limited shelf or operating life are controlled to prevent their inappropriate use.

9.0 CONTROL OF SPECIAL PROCESSES

9.1 Procedures have been established to control special processes used in the fabrication, maintenance and inspection of storage / transportation systems and other items subject to the requirements of the QAP. These processes may include welding, non-destructive examination, or other special processes as identified in design, licensing or procurement documents.

9.2 Special processes are performed in accordance with approved procedures.

9.3 Personnel who perform special processes are trained and qualified in accordance with applicable codes, standards, specifications, or and other special requirements.

9.4 Records of procedure and personnel qualifications are maintained as QA Records.

10.0 INSPECTION

10.1 Procedures have been established to ensure that inspection or surveillance is performed to verify that material, parts, processes classified as important-to-safety or safety-related and associated quality affecting activities conform to documented instructions, procedures, specifications, drawings, procurement documents and regulatory requirements, as applicable.

10.2 Personnel performing inspection and surveillance activities are trained and qualified in accordance with approved procedures.

10.3 Inspections and surveillances are performed by individuals other than those who performed or supervised the subject activities.

10.4 Inspection or surveillance and process monitoring are both required where either one by itself will not provide assurance of quality.

10.5 Modifications or repairs to and replacements of important-to-safety or safety-related structures, systems and components and related quality affecting activities are inspected in accordance with the original design and inspection requirements or acceptable alternatives.

10.6 Inspection and surveillance planning includes the determination of mandatory hold points, inspection equipment requirements, acceptance criteria, personnel qualification requirements, performance characteristics, variable and/or attribute recording instructions, reference documents, and other requirements as applicable.

10.7 Inspection and surveillance activities are performed in accordance with written instructions and the results are documented.

11.0 TEST CONTROL

11.1 Procedures have been established to ensure that proof; acceptance and/or operational tests required by specifications, drawings, procurement documents and regulatory requirements are performed and appropriately controlled.

11.2 Test personnel have appropriate training and are qualified for the level of testing which they are performing. Personnel are qualified in accordance with approved instructions or procedures.

11.3 Tests are performed by qualified personnel in accordance with approved instructions, procedures and/or checklists that contain or reference the following information, as applicable:

11.3.1 Acceptance criteria contained in the applicable test specifications, or design and procurement documents;

11.3.2 Instructions for performance of tests, including environmental conditions;

11.3.3 Test prerequisites such as test equipment and instrumentation requirements, personnel qualification requirements, fabrication or operational status of the items to be tested; and

11.3.4 Provisions for data recording and records retention.

11.4 Test results are documented and evaluated to ensure that acceptance criteria have been met.

11.5 Tests to be conducted after modifications, repairs or replacements of important- to-safety or safety-related structures, systems or components are performed in accordance with the original design and testing requirements or acceptable alternatives.

12.0 CONTROL OF MEASURING AND TEST EQUIPMENT

12.1 Procedures have been established to ensure that tools, gages, instruments and other measuring and testing devices (M&TE) used in important-to-safety or safety-related activities are properly controlled, calibrated and adjusted to maintain accuracy within required limits.

12.2 M&TE is calibrated at scheduled intervals against certified standards having known valid relationships to national standards. If no national standards exist, the basis for calibration is documented. Calibration intervals are based on required accuracy, precision, purpose, amount of use, stability characteristics and other conditions that could affect the measurements.

12.3 Calibrations are performed in accordance with approved procedures. Measuring and test equipment is identified to indicate its calibration status.

12.4 M&TE is labeled or tagged indicating the next required calibration due date and identified in a fashion that ensures traceability to associated calibration records.

12.5 If M&TE is found to be out of calibration, an evaluation is performed and documented regarding the validity of inspections or tests performed and the acceptability of items inspected or tested since the previous acceptable calibration. The current status of M&TE is recorded and maintained. If M&TE is consistently found to be out of calibration, it is repaired, replaced and the calibration frequency adjusted if necessary.

12.6 Special calibration and control measures on rules, tape measures, levels and other such devices are not required where normal commercial practices provide adequate accuracy.

13.0 HANDLING, STORAGE AND SHIPPING

13.1 Procedures have been established to ensure that materials, parts, assemblies, spare parts, special tools, and equipment are handled, stored, packaged and shipped in a manner to prevent damage, loss of identity or deterioration.

13.2 When necessary, storage procedures address special requirements for environmental protection such as inert gas atmospheres, moisture control, temperature levels, etc.

14.0 INSPECTION, TEST AND OPERATING STATUS

14.1 Procedures have been established to ensure that the inspection, test and operating status of materials, items, structures, systems and components throughout fabrication, installation, operation and test are clearly indicated by suitable means (e.g., tags, labels, cards, form sheets, check lists, etc.).

14.2 Bypassing of required inspections, tests, or other critical operations is prevented through the use of approved instructions or procedures

14.3 As appropriate, the operating status of nonconforming, inoperative or malfunctioning components (e.g., valves, switches, etc.) is indicated to prevent inadvertent operation. The application and removal of status indicators is performed in accordance with approved instructions and procedures.

14.4 Nonconforming items are identified and controlled in accordance with approved procedures.

15.0 NONCONFORMING MATERIAL, PARTS OR COMPONENTS

15.1 Procedures have been established to control materials, parts, and components that do not conform to requirements to prevent their inadvertent use in manufacturing operations or during service.

15.2 Nonconforming items include those items that do not meet specification or drawing requirements. Additionally, nonconforming items include items not fabricated or tested (1) in accordance with approved written procedures, (2) by qualified processes, or (3) by qualified personnel, where use of such procedures, processes or personnel is required by fabrication, test, inspection or other quality assurance requirements.

15.3 Nonconforming items are identified and/or segregated to prevent their inadvertent use until proper disposition has been determined. The identification of nonconforming items is by marking, tagging or other methods that do not adversely affect the end use of the item. The identification is legible and easily recognizable. When identification of each nonconforming item is not practical, the container, package, or segregated storage area, as appropriate, is identified.

15.4 Nonconforming conditions are documented on Nonconformance Reports (NCRs) and affected organizations are notified. These reports include a description of the nonconforming condition. Nonconforming dispositions are either use-as-is, reject, repair, or rework.

15.5 Inspection or surveillance requirements for nonconforming items following rework, repair or modification are detailed in the NCRs and approved following completion of the disposition.

15.6 Acceptability of rework or repair of nonconforming materials, parts, and components is verified by re-inspecting and/or re-testing the item to the original requirements or equivalent inspection/testing methods. Inspection, testing, rework, and repair methods are documented and controlled.

15.7 The disposition of nonconforming items as use-as-is or repair includes a documented technical justification and independent verification to ensure compliance with design, regulatory and contractual requirements.

15.8 Items dispositioned as rework or repair are re-inspected and retested in accordance with the original inspection and test requirements or acceptable alternatives that comply with the specified acceptance criteria.

15.9 When specified by contract requirements, nonconformances that result in a violation of client contract or specification requirements are submitted for client approval.

15.10 NCRs are periodically reviewed to identify quality trends. Unsatisfactory quality trends are documented and appropriate corrective actions taken. The results of these reviews are reported to management.

15.11 NCRs related to activities internal to AREVA TN Americas are issued to the management of the affected organization. Engineering approval of the disposition is obtained and follow-up activities are performed to ensure that the requirements of the disposition have been satisfied prior to closure of the report.

15.12 Compliance with the evaluation and reporting requirements of 10 CFR Part 21 related to defects and noncompliance is controlled in accordance with approved procedures.

16.0 CORRECTIVE ACTION

16.1 Procedures have been established to ensure that conditions adverse to quality such as failures, malfunctions, deficiencies, deviations, defective material and equipment are promptly identified and corrected. In the case of significant conditions adverse to quality, the cause of the condition is determined and corrective actions to prevent recurrence are taken.

16.2 Conditions adverse to quality are documented in Corrective Action Reports (CARs) and reported to the appropriate level of management. When necessary, follow up is performed to verify that corrective action requirements have been completed and are effective. Periodically, quality trends are evaluated and appropriate corrective actions taken.

16.3 Compliance with the evaluation and reporting requirements of 10 CFR Part 21 related to defects and noncompliance is controlled in accordance with approved procedures.

17.0 QUALITY ASSURANCE RECORDS

17.1 Procedures have been established to ensure the control of quality records. The purpose of the Quality Assurance Records system is to ensure that documented evidence pertaining to safety-related or important-to-safety activities is maintained and available for use by AREVA TN Americas, its customers, and/or regulatory agencies, as applicable.

17.2 Approved procedures identify the types of documents to be retained as Quality Assurance Records, as well as those to be retained by the originating organization. Lifetime and Non-Permanent records are retained by AREVA TN Americas or its customers, as appropriate. Records are identified, indexed and stored in accessible locations.

17.3 Quality Assurance Records are maintained for periods specified in the applicable regulations to furnish evidence of the quality for important-to-safety or safety-related structures, systems and components. These records include design, procurement, fabrication, assembly and erection records.

17.4 When applicable to AREVA TN Americas activities, Quality Assurance Records include; design records, records of use, results of reviews, inspections, tests, audits, results from monitoring of work performance, material analyses, maintenance activities, modification activities, and repair activities. The records also include closely related data such as; qualification of personnel, procedures and equipment; records of equipment calibration, and related instructions, procedures, and drawings. In the case of inspection and test records; identification of the inspector or data recorder, the type of observation performed, the results of the observation, its acceptability and any actions taken in connection with any noted deficiency are recorded.

17.5 Requirements for legibility, indexing, record retention period(s), storage method(s) and location(s), classification, preservation measures, electronic records, disposition of nonpermanent records, and responsibility for safekeeping are specified in approved procedures. Record storage facilities have been established to prevent destruction of the records by fire, flood, theft, and deterioration due to environmental conditions (such as temperature, humidity, or vermin). As an alternative, two identical sets of records (hardcopy or electronic media) may be maintained at separate locations.

17.6 AREVA TN Americas retains required records for at least three (3) years beyond the date of last engagement in the activities under the scope of the QAP for 10 CFR Part 71 related records and/or until the NRC terminates the CoC for 10 CFR Part 72 related records.

18.0 AUDITS

18.1 Procedures have been established to ensure that periodic audits are performed to verify compliance with the QAP and determine its effectiveness. Those areas and activities to be audited, such as design, procurement, fabrication, inspection, and testing of storage/transportation systems, are identified in audit planning.

18.2 Audits are planned and scheduled in a manner to provide coverage and coordination with ongoing QA Program activities commensurate with the status and importance of the activities.

18.3 Audits are performed by trained and qualified personnel not having direct responsibilities in the areas being audited and are conducted in accordance with written plans and checklists. Audit results are documented and reviewed with the appropriate level of management having responsibility for the area audited. Corrective actions and schedules for implementation are established and recorded. Audit reports include an objective evaluation of the quality-related practices, procedures and instructions for the areas or activities being audited and the effectiveness of implementation.

18.4 Responsible management undertakes corrective actions as a follow-up to audit reports when appropriate. Audit results are evaluated for indications of adverse trends that could affect quality. When results of such assessments so indicate, appropriate corrective actions are implemented.

18.5 Follow-up actions including re-audit of deficient areas are performed when determined necessary to ensure that corrective actions taken are effective.

18.6 Requirements for audit of supplier activities are provided in Section 7.0 of this QAPDM.

19.0 REFERENCES

- *Title 10, Code of Federal Regulations, Part 21 - Reporting of Defects and Noncompliances*
- *Title 10, Code of Federal Regulations, Part 50, Appendix B – Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants*
- *Title 10, Code of Federal Regulations, Part 71, Subpart H – Packaging and Transportation of Radioactive Material, Quality Assurance*
- *Title 10, Code of Federal Regulations, Part 72, Subpart G – Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste, Quality Assurance*
- *Regulatory Guide 1.28, Revision 4, June 2010 – Quality Assurance Program Criteria (Design and Construction)*
- *Regulatory Guide 7.10, Revision 2, March 2006 – Establishing Quality Assurance Programs For Packaging Used In Transportation Of Radioactive Material*
- *NUREG/CR-6407, February 1996 – Classification of Transportation Packaging and Dry Spent Fuel Storage System Components According to Importance to Safety*
- *ASME Section III, Division 1 (NCA 4000 Quality Assurance)*
- *ASME Section III, Division 3 (WA 4000 Quality Assurance)*
- *ASME NQA-1 – Quality Assurance Requirements for Nuclear Facility Applications*

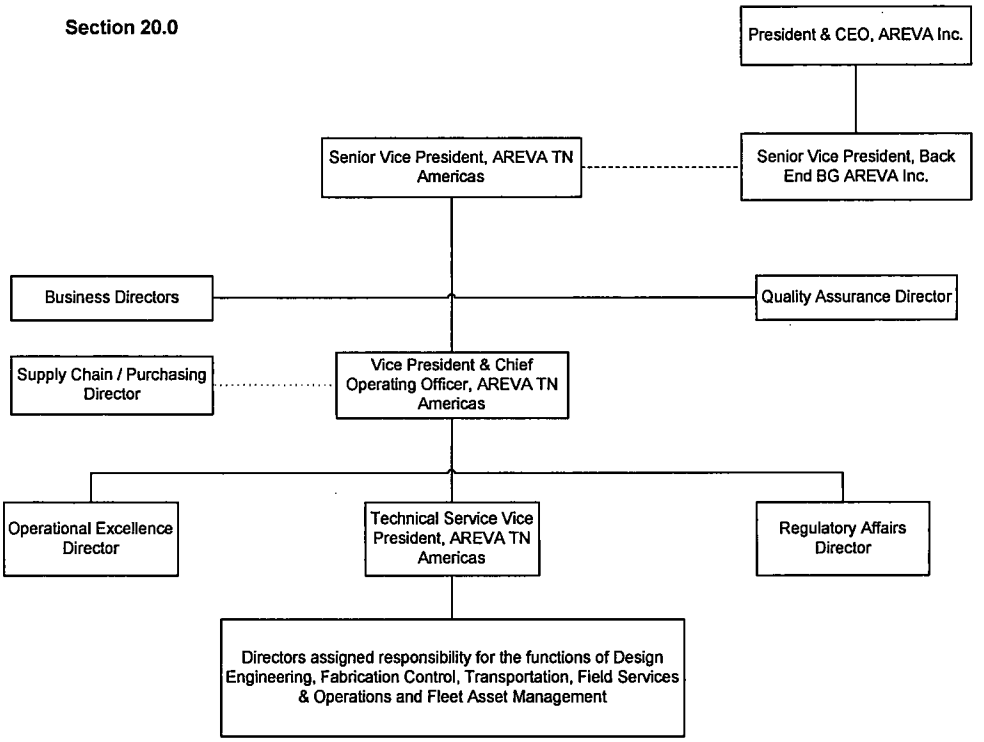

Figure 1 – AREVA inc. Functional Organization for Quality Assurance Program Activities

List of 10 CFR Part 71 Certificates of Compliance (CoCs) Shown as Issued to Transnuclear, Inc., With Associated Revision Applications Currently Under NRC Review, any Associated U. S. Department of Transportation Competent Authority Certifications, and Recommendations for Continued Use Periods for Previous CoC Revisions

Docket Number	Revision	Expiration Date	Description	Comments	US CAC Number (USA/)	Revision	Expiration Date	Comments
71-9217	16	06/30/2015	ANF-250	No Licensing actions at this time.	9217/AF	15	6/30/15	CAC Revision 15 references CoC Revision 16. It is recommended that CoC Revision 17 allow use of Revision 16 for 12 additional months.
71-9233	10	04/30/2015	TN-RAM	No Licensing actions at this time.	N/A	N/A	N/A	N/A
71-9248	22	04/30/2014	SP-1, SP-2, SP-3	Request for CoC renewal submittal is planned for January 2014.	9248/AF	24	4/30/14	Request for CAC revalidation/ renewal submittal is planned for March 2014. CAC Revision 24 references CoC Revision 22. Based on the CoC renewal request to be submitted in January 2014, it is recommended that (renewed) CoC Revision 23 allow use of Revision 21 until 4/30/14 and allow use of Revision 22 for 12 additional months.
71-9255	11	11/30/2018	NUHOMS® MP187	No Licensing actions at this time.	N/A	N/A	N/A	N/A
71-9293	3	02/29/2016	TN-68 Cask	No Licensing actions at this time.	N/A	N/A	N/A	N/A
71-9301	6	11/30/2018	TNF-XI	No Licensing actions at this time.	N/A	N/A	N/A	N/A

List of 10 CFR Part 71 Certificates of Compliance (CoCs) Shown as Issued to Transnuclear, Inc., With Associated Revision Applications Currently Under NRC Review, any Associated U. S. Department of Transportation Competent Authority Certifications, and Recommendations for Continued Use Periods for Previous CoC Revisions

Docket Number	Revision	Expiration Date	Description	Comments	US CAC Number (USA/)	Revision	Expiration Date	Comments
71-9302	5	08/31/2017	NUHOMS® MP197	Application for Revision 6 submitted 3/2/12. In review with NRC.	9302/B(U) F-96	1	8/31/17	CAC Revision 1 references CoC Revision 5. It is recommended that CoC Revision 6 allow use of Revision 5 for 12 additional months. A CAC revision submittal is pending issuance of CoC Revision 6.
71-9313	0	06/30/2016	TN-40	No Licensing actions at this time.	N/A	N/A	N/A	N/A
71-9319	5	01/31/2018	MAP-12/ MAP-13	No Licensing actions at this time.	N/A	N/A	N/A	N/A
71-9358	0	12/31/2017	TN-LC	Application for Revision 1 submitted 10/11/13. In review at NRC.	9358/B(U) F-96	0	12/31/17	CAC Revision 0 references CoC Revision 0. It is recommended that CoC Revision 1 allow use of Revision 0 for 12 additional months. A CAC revision submittal is pending issuance of CoC Revision 1.

List of 10 CFR Part 72 Certificates of Compliance Shown as Issued to Transnuclear, Inc., With Associated Amendment Applications Currently Under NRC Review

Certificate of Compliance Number	Current Amendment	System	Amendment Applications Currently Under NRC Review
1004	11	Standardized NUHOMS® System	Amendment 13
1021	1	TN-32	None
1027	1	TN-68	None
1029	1	Standardized Advanced NUHOMS® System	Amendment 3*
1030	1	NUHOMS® HD System	Amendment 2

*The CoC 1029 Amendment 2 application was withdrawn before NRC approval.