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September 1, 2006

U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

ATTENTION: Document Control Desk

SUBJECT: **Calvert Cliffs Nuclear Power Plant**
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318
Nine Mile Point Nuclear Station
Unit Nos. 1 & 2; Docket Nos. 50-220 & 50-410
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Response to Request for Additional Information Regarding Common Quality Assurance Program (TAC Nos. MC9180, MC9181, MC9182, MC9183, and MC9184)

- REFERENCES:**
- (a) Letter from J.M. Heffley (CGG) to Document Control Desk (NRC), Request for Approval of a Common Quality Assurance Program for Constellation Generation Group, LLC, dated December 5, 2005
 - (b) Letter from P.D. Milano (NRC) to J.M. Heffley (CGG), Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2, Nine Mile Point Nuclear Station, Unit Nos. 1 and 2, and R.E. Ginna Nuclear Power Plant - Request for Additional Information Regarding Common Quality Assurance Program (TAC Nos. MC9180, MC9181, MC9182, MC9183, and MC9184), dated May 15, 2006
 - (c) Telephone conference between P.D. Milano, et al (NRC) and B.S. Montgomery, et al (CEG) on August 3, 2006.

Reference (a) submitted a common Quality Assurance Topical Report (QATR), pursuant to Title 10 of the Code of Federal Regulations 50.54(a), for Calvert Cliffs Nuclear Power Plant, Units 1 and 2, Nine Mile Point Nuclear Station, Units 1 and 2, and R.E. Ginna Nuclear Power Plant. The program described in the QATR would be applied to licensed activities under 10 CFR Parts 50, 71, and 72.

Reference (b) requested additional information to assist the Nuclear Regulatory Commission in their review of Reference (a).

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Reference (c) discussed clarifying information and resubmittal of the response to Reference (b). Attachment 1 to this letter provides the clarifying information. Attachment 2 provides markup pages of the revised QATR. Attachment 3 provides the revised QATR pages. Please replace your copy of the QATR with the attached. Attachment 4 provides a new Attachment 4 to Reference (a). Please replace this document in entirety. Attachment 4 to Reference (a) has been revised from a tabular to a text format document. Except for changes reflecting the responses in Attachment 1, the revised Attachment 4 contains the same information as contained in the original tabular version.

Should you have any questions regarding the information in this submittal, please contact Mr. B.S. Montgomery at (410) 897-5189 or Bruce.S.Montgomery@constellation.com.

Very truly yours,


John M. Heffley
Chief Nuclear Officer

STATE OF MARYLAND

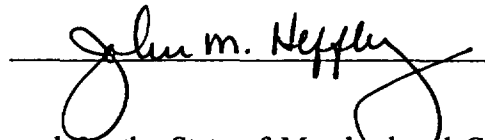
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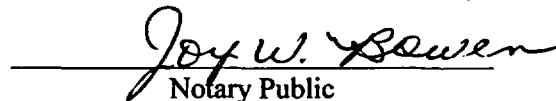
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I, John M. Heffley, state that I am Chief Nuclear Officer, Constellation Generation Group, LLC, for Calvert Cliffs Nuclear Power Plant, Inc., Nine Mile Point Nuclear Station, LLC, and R. E. Ginna Nuclear Power Plant, LLC, and that I am duly authorized to execute and file this response on behalf of these companies. To the best of my knowledge and belief, the statements contained in this document are true and correct. To the extent that these statements are not based on my personal knowledge, they are based upon information provided by employees and/or consultants of the companies. Such information has been reviewed in accordance with company practice, and I believe it to be reliable.



Subscribed and sworn before me, a Notary Public, in and for the State of Maryland and County of Calvert, this 1st day of September, 2006.

WITNESS my Hand and Notarial Seal:


Notary Public

My Commission Expires:

June 27, 2007
Date

Document Control Desk

September 1, 2006

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JMH/EMT/jmp

Attachments: (1) Response to Request for Additional Information
(2) QATR Markup
(3) Revised QATR Pages
(4) Revised QATR Attachment 4

cc:	P. D. Milano, NRC	T. G. Colburn, NRC
	S. J. Collins, NRC	R. I. McLean, Maryland DNR
	Resident Inspector, NRC (Ginna)	J. P. Spath, NYSERD
	Resident Inspector, NRC (Calvert Cliffs)	P. Eddy, NYS Dept. of Public Services
	Resident Inspector, NRC (NMPNS)	

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Attachment 1, Quality Assurance Topical Report

1. *Standard Review Plan (SRP) Section 17.3, "Quality Assurance Program Description," specifies, in Part II.A.7, the regulatory commitments the licensee must meet for the QATR to be found acceptable. In its QATR, CGG states that a commitment to a particular Regulatory Guide (RG) does not constitute a commitment to other RGs or other standards that may be referenced therein. Provide an explanation of how this is acceptable.*

As regulatory guidance has evolved over the years, regulatory guides and endorsed standards have been revised, re-issued, and withdrawn. This has resulted in regulatory guides referencing other regulatory guides or standards that may have been superseded or revised. For instance, Regulatory Guide 1.33, Revision 2, endorses many of the regulatory guides and standards that are superseded by Regulatory Guide 1.28, Revision 3.

Our statement that a commitment to a particular regulatory guide does not constitute a commitment to other regulatory guides or other standards that may be referenced in it serves to make it clear that referenced guides and standards are not committed to by default. When we are committing to all or part of a regulatory guide, we prefer to state that specifically.

2. *SRP Section 17.3 specifies, in Part II.A.2, that a licensee's program must contain independence between persons and organizations executing performance activities and those executing verification and self-assessment activities.*

Provide an explanation of why the use of conference calls as an alternative means to hold meetings is acceptable for the Nuclear Safety Review Board.

After further review, CGG has decided to revise Section 2.4 of QATR Appendix A, which discusses Nuclear Safety Review Board (NSRB) meeting frequency. Constellation Generation Group has concluded that all NSRB meetings are formal meetings in the context of ANSI N18.7, section 4.3.2.2. Furthermore, CGG has determined that this QATR will not apply to any new construction plants. Therefore, QATR Appendix A, Section 2.4, has been revised, and the section now reads as follows:

"2.4 MEETING FREQUENCY

The NSRB shall meet at least once per six months."

3. *SRP Section 17.3 specifies, in Part II.C.2, that a program of planned and periodic assessments is to be established.*

Provide the definition in the QATR for the terms audit, self-assessment, and independent assessment.

We use the definition of audit found in NQA-1-1994 Part I, Introduction, Section 4. That definition is: "a planned and documented activity performed to determine by investigation, examination, or evaluation of objective evidence the adequacy of and compliance with established procedures, instructions, drawings, and other applicable documents, and the effectiveness of implementation. An audit should not be confused with inspection activities performed for the sole purpose of process control or product acceptance." We commit to NQA-1-1994 Part I, Section 4 in Appendix C of the Quality Assurance Topical Report (QATR).

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The definition of self-assessment, as used by Constellation Generation Group, LLC (CGG) facilities, is “an internal evaluation of the level of performance, or output of an activity or organization, as compared to management expectations and industry standards of excellence. Recommendations are documented to achieve improvements in the assessed area.”

The definition of independent assessment, as used by CGG facilities, is expressed in Nine Mile Point Nuclear Station, R.E. Ginna Nuclear Power Plant, and Calvert Cliffs Nuclear Power Plant procedures as “the process used to provide ongoing independent evaluation and communication of results to management on program performance, trends, and management effectiveness.” We use the term independent as part of an assessment as expressed in SRP Section 17.3, Part II.C.2.

These definitions have been added to Appendix C of the QATR.

Attachment 2, Program Comparison Matrix

1. *The Calvert Cliffs Quality Assurance Policy states that the Plant General Manager has the final responsibility for the overall evaluation of shutting down an operating unit. The staff was not able to find this responsibility in the QATR.*

Provide where the QATR has established the responsibility of shutting down an operating unit.

The intent of the QATR was to recognize the broad base of responsibility and authority held by the Plant General Managers, including the authority to shutdown an operating unit. To ensure this responsibility and authority is clearly defined, the sentence defining the Plant General Manager’s authority in Section A.4 is revised to state:

“The Plant General Managers have stop work authority for all activities performed in operating their respective stations, including the final responsibility for the overall evaluation of shutting down an operating unit.”

Attachment 3, Table Comparing ANSI N18.7-1976/ANS-3.2 to NQA-1-1994 and the CGG QATR

1. *The CGG QATR definition for off-normal condition procedures does not have the same definition as in American National Standards Institute (ANSI) N18.7-1976/American Nuclear Standard (ANS) 3.2.*

The QATR must adopt the ANSI N18.7-1976/ANS-3.2 definition.

The CGG QATR definition for “off-normal condition procedures” in Appendix C is revised to match the ANSI N18.7-1976/ANS-3.2 definition. The definition now reads:

“written procedures which specify operator actions for restoring an operating variable to its normal controlled value when it departs from its range, or to restore normal operating conditions following a perturbation. Such actions are invoked following an operator observation or an annunciator alarm indicating a condition which, if not corrected, could degenerate into a condition requiring action under an emergency procedure.”

2. *ANSI N18.7-1976/ANS-3.2 states that temporary procedures shall be approved by the management representative assigned approval authority, CGG states that this statement is found*

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in the QATR Section B.14, "Document Control." The NRC staff reviewed Section B.14 and found only temporary changes were mentioned. In Appendix B of the QATR, the staff found, under the definition of "Test and Inspection Procedures," a definition for "temporary procedures."

Explain how approval of temporary procedures are captured in the QATR.

Constellation Generation Group, LLC does not distinguish between processing permanent and temporary procedures. The paragraph in QATR Section B.14 that discusses approval authority for procedures required by Technical Specifications is applicable to temporary procedures.

From QATR Section B.14: "Procedures required by Technical Specifications shall be approved by the Plant General Manager or by cognizant managers or other supervisory personnel prior to implementation as specified by administrative requirements. The approval authority for specific procedures or classes of procedures shall be designated in writing by the Plant General Manager."

3. *The comments under Section 5.2.17, "Inspections," states that "Inspection records under NQA-1, may be a part of the work documents."*

Provide clarification of what is meant by this statement. Additionally, state the definition of a "work document," and how this is consistent with NQA-1 Basic Requirement 17.

Inspection records are not specifically addressed in NQA-1 Basic Requirement 17, Quality Assurance Records. The maintenance and inspection records storage requirements for operations phase activity records are consistent with each site's current records storage Quality Assurance requirements. As committed to in CGG QATR Appendix D, "Operations Phase Activity Records," records are required to be maintained for five years for "Records and logs of principal maintenance activities, inspections, repair, and replacement of principal items of equipment related to nuclear safety." These records are generated during maintenance activities under "work orders" or "maintenance orders," collectively called "work documents." These work documents are processed to records management as a package and can include any inspections performed. Whether inspection records are processed as part of the work documents or separately, inspection results are documented and retained as required. While the site-specific terminology is different for the work documents, the records retention requirements are the same.

Attachment 4, Table of CGG QATR Exception and Alternatives

1. *For each of the exceptions and alternatives mentioned in Attachment 4, provide a basis for the applicability of the exception for each CGG facility.*

**Exception 1,
Section A.5, Item 1.**

Exception to NQA-1-1994 Supplement 2S-1, regarding alternative qualifications for inspectors.

The purpose of the exception is to permit line personnel at Calvert Cliffs, Nine Mile Point and Ginna, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception addresses the training and qualification required of these individuals, and the conditions under which they can conduct these activities. Complementary to this exception is an exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel (See discussion for Exception 2). The

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exception to Non Mandatory Appendix 2A-1 applies to the same personnel as those covered by the exception to Supplement 2S-1. Since these personnel are trained and qualified to perform the activities as specified under this exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This exception to Supplement 2S-1 will be implemented through training for personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities that are in the same organization as that which performed the work. Constellation Generation Group will apply this exception only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The implementation of this exception will ensure that (1) the same level of qualification is required as for those who performed the work, (2) the personnel will be required to have the necessary skills and/or have the verification requirements specified in procedures, and (3) where the work involves the breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The inspection planning process, performed by personnel qualified in accordance with CGG's commitment to NQA-1-1994, Supplement 2S-1 and Appendix 2A-1, takes the above three factors into account by establishing who will be responsible for performing the inspection. If the above three factors cannot be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

The alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills necessary to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training- based training program that meets 10 CFR 50.120.

This exception was based on the 2005 Nuclear Management Company (NMC) fleet QATR submittal; NMC based it on a previous Palisades exception. This alternative is used by NMC to describe alternative training methods if it implemented line performance of quality control inspections. Constellation Generation Group will also apply it only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The qualification requirements for this alternative are documented in the basis for the NMC Quality Assurance Topical Report (QATR) Exception A.5 for NQA-1-1994, Supplement 2S-1 in Enclosure 3 of the NMC letter dated March 31, 2003 (ML033070161). The approval for this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255, dated February 27, 1992. The basis for the NMC alternative is that (1) the same level of qualification is required as for the individual who performed the work, (2) the personnel will be required to have the necessary skills and/or the verification requirements will be specified in the procedures/instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of quality verification inspections and tests.

This exception is acceptable for CGG because the basis for the CGG exception is equal to that indicated in the NMC alternative.

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The corresponding basis for the exception in Attachment 4 has been revised to reflect this response. To further clarify this alternative and the alternative for Non Mandatory Appendix 2A-1(Exception 2), Paragraph 2 of QATR Section A.5 is being revised as follows:

"In lieu of being certified as Level I, II or III in accordance with Non-mandatory Appendix 2A-1 of NQA-1-1994, personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities, that are in the same organization as that which performed the work, will be required to possess the same minimum level of qualification as that required for performing the task being verified. The verification shall be within the skills of these personnel and/or is addressed by procedures. These individuals will not be responsible for the planning of quality verification inspections and tests (i.e. establishing hold points and acceptance criteria in procedures, or determining who will be responsible for performing the inspections), evaluating inspection training programs, or certifying inspection personnel."

Exception 2, Section A.5, Item 2.

Exception to NQA-1-1994 Nonmandatory Appendix 2A-1, regarding an alternative to three levels of qualification/certification of inspection and test personnel.

The purpose of the exception is to allow CGG line personnel at Nine Mile Point, Ginna and Calvert Cliffs who perform inspections and are in the same organization as that which performed the work. These individuals are qualified in an accredited systematic approach to training-based training program that meets 10 CFR 50.120, have the same minimum level of qualification as the individual performing the task, have the necessary skills, and have the verification requirements specified in procedures, to be exempt from being certified Level I, II, or III as required in NQA-1-1994 Non Mandatory Appendix 2A-1. Complementary to this exception is an exception to NQA-1-1994 Supplement 2S-1, regarding alternative qualifications for inspectors. (See discussion for Exception 1). The purpose of the exception to Supplement 2S-1 is to permit line personnel, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel, applies to the same personnel as those covered by the exception to Supplement 2S-1; since these personnel are trained, qualified, and perform the activities as specified under the 2S-1 exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills needed to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training-based training program that meets 10 CFR 50.120.

This alternative is similar to the qualification requirements documented in the basis for the Nuclear Management Company Quality Assurance Topical Report (NMC QATR) for a related exception to NQA-1-1994, Supplement 2S-1. The approval of this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255 dated February 27, 1992. The basis for the Constellation change for Nine Mile Point, Ginna, and Calvert Cliffs is equal to that indicated in the NMC alternative in that (1) the same level of qualification is required, (2) the personnel will be required to have the necessary skills

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and/or the verification requirements will be specified in the procedures/instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of quality verification inspections and tests. If the above factors can not be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

This exception is acceptable for CGG because the accredited systematic approach to training-based training program evaluates and qualifies individuals to tasks, and determines minimum requirements relating to education, skills and experience and the inspection criteria will be developed by and specified in written instructions by an individual qualified to NQA-1-1994 Appendix 2A-1.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

Exception 3.

Section A.5, Item 3

An exception to NQA-1-1994 Supplement 2S-2, regarding the use of the standard cited in the plant specific editions of Sections III and XI of the ASME Boiler and Pressure Vessel Code for qualification of nondestructive examination personnel.

The Safety Analysis Report for each of the CGG plants specifies the ASME Code Editions/Addenda to which each of the plants comply. The ASME Code, Sections III and XI, identifies specific editions of SNT-TC-1a or CP-189; different Code editions/addenda may identify different editions of SNT-TC-1a/CP-189.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This exception is acceptable for CGG because it ensures that NRC approved qualification requirements for nondestructive examination (NDE) personnel are imposed while providing flexibility for each plant to continue to use their current requirements. The exception also assures such requirements are consistent with current industry practice. It should be noted that CGG commits to compliance with Regulatory Guide 1.28, Revision 3 which does not contain specific guidance on the use of SNT-TC-1A/CP-189. This exception will be implemented at Calvert Cliffs, Nine Mile Point and Ginna.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

Exception 4,

Section A.5, Item 4

Exception to NQA-1-1994 Supplement 2S-3, regarding prospective lead auditor qualifications: As described in the "Revised Submittal of Quality Assurance Program for Station Operation, Ginna Nuclear Power Plant" dated December 21, 1998, the revised requirements for certification of lead auditors are consistent with the guidance provided by the NRC in a letter "Review of Nuclear Energy Institute Proposed Improvements to QA Programs," dated October 24, 1996. The

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revised requirement meets the intent of Section 3.3 of NQA-1-1994 to have the prospective lead auditor demonstrate the ability to effectively implement the audit process and to lead an audit team. Since the revised requirements meet the intent of the original requirement and the NRC has proposed this approach as an acceptable alternative, this change does not reduce the scope of the quality assurance program.

The NRC notes in their Safety Evaluation Report to R.E. Ginna Nuclear Power Plant, dated April 6, 1999, that in an October 24, 1996 letter to the Nuclear Energy Institute, the NRC staff provided its position with regards to acceptable industry proposed alternatives on quality assurance processes for qualifying auditors and for conducting annual evaluations of suppliers. Rochester Gas and Electric's proposed alternative for certifying lead auditors, as described was consistent with the staff's position in the cited letter and is, therefore, acceptable.

Exception 5.

Section A.5, Item 5

An exception to apply a grace period of 90 days to the performance of annual evaluations of inspection, examination and testing personnel qualifications defined in NQA-1-1994 Supplement 2S-1, and annual lead auditor recertifications described in Supplement 2S-3.

Supplement 2S-1 requires that the performance of inspection and test personnel be reevaluated at periodic intervals not to exceed 3 years. In addition, the supplement specifies that any person who has not performed inspection or testing activities in his qualified area for a period of 1 year shall be reevaluated. Supplement 2S-3 requires annual re-evaluation of lead auditor qualifications. Neither supplement addresses any grace period for the activities, thereby defaulting to a literal interpretation of annual, every three years, etc. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, "Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backwards when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point for lead auditors. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

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Exception 6,

Section A.7.3, Item 4.a

Exception to Regulatory Position C of Regulatory Guide 1.28, Revision 3, regarding use of NQA-1-1994 in lieu of NQA-1-1983: This exception was based on the 2002 Exelon fleet QATR submittal. In the Code of Federal Regulations, 10 CFR 50.54(a)(3)(i) allows "The use of a QA standard approved by the NRC which is more recent than the standard in the licensee's current QA program at the time of the change." Although the NRC has not yet specifically endorsed NQA-1-1994 in their regulatory guides, Regulatory Guide 1.28, Revision 3, dated August 1985, endorsed NQA-1-1983. Correspondence by the NRC and related NRC Safety Evaluation Report (SER) dated December 24, 2002, for approval of Revision 70 of QATR EGC-1A, for EXELON/AMERGEN plants, subsection 3.2.1, determined that the requirements of the 1983 and 1994 editions of NQA-1 are equivalent. Based on the related NRC safety evaluation, CGG's use of NQA-1-1994 is consistent with 10 CFR 50.54(a)(3)(ii), which states, "The use of a quality assurance alternative or exception approved by an NRC safety evaluation, provided that the bases of the NRC approval are applicable to the licensee's facility" is not a reduction in commitment. EXELON has submitted a comparison of NQA-1-1983 with NQA-1-1994, used as part of the basis for the NRC approval, which applies to CGG's QATR. In addition, CGG prepared a table to compare the ANSI N18.7 standard to NQA-1-1994 and the CGG QATR (Attachment 3 to the QATR submittal).

Exception 7,

Section A.7.3

Exception to Regulatory Position C.1 of Regulatory Guide 1.28, Revision 3, regarding an alternative to three levels of qualification/certification of inspection and test personnel: Constellation Generation Group does not commit to compliance with Regulatory Position C.1 of Regulatory Guide 1.28, Revision 3; instead of establishing three levels of qualification provided in NQA-1-1994, Non Mandatory Appendix 2A-1, CGG may establish initial qualification requirements and determine individual qualification through evaluation of education, training and experience, and through demonstration of capability in performing the type of inspections expected on the job.

After further reviews associated with this item, CGG has determined that this alternative is not needed and will delete it from its submittal. Nine Mile Point, Ginna, and Calvert Cliffs will meet the requirements of NQA-1-1994 Non-Mandatory Appendix 2A-1 for their Quality Assurance organizations.

Exception 8,

Section A.7.3, Item 4.c

Exception to Regulatory Guide 1.28, Revision 3, Regulatory Position C.3.2, regarding external audits of vendors. This exception applies to Regulatory Positions C.3.2.1 and C.3.2.2 of Regulatory Guide 1.28.

The exception to Regulatory Position C.3.2.1 involves a 90 day grace period for the performance of supplier triennial audits. This exception is analogous to provisions in Technical Specifications that allow a 25% grace period for the performance of periodic surveillances. The proposed grace period is intended to provide flexibility in scheduling activities. Since the clock for an activity cannot be reset forward, the average frequency at which an activity is performed will remain the same.

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The exception to Position C.3.2.1 was originally an exception to the provisions of Regulatory Guide 1.144, Revision 1, and was approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation "Proposed Revision 25 to the Rochester Gas and Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant," dated July 22, 1998. The approval allowed a 90-day grace period for supplier audits. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backward when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same. This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

The exception to Regulatory Position C.3.2.2 provides for a documented ongoing evaluation of the supplier's performance, rather than an annual evaluation. The ongoing evaluation of suppliers takes into account the review of supplier furnished documents, such as certificates of conformance, non-conformance notices, and corrective actions, as well as evaluating the results of previous source surveillances/verifications, audits/ surveys, and receiving inspections. Constellation Generation Group also reviews operating experience information pertaining to equipment failures and evaluates the results of audits from other sources (e.g. NUPIC audits) for their effect on supplier qualification status. As described in procedures at all CGG plants, the results of these evaluations are reviewed and appropriate corrective action taken. Furthermore, adverse findings resulting from these evaluations are periodically reviewed to determine if, in the aggregate, they result in a significant condition adverse to quality. Additionally, the results of these evaluations are used to provide input to support supplier audit activities conducted by CGG or third party auditing organizations.

If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes. Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

The exception to Position C.3.2.2 is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. In establishing their exception NMC stated that:

"Industry programs, such as those applied by ASME, NUPIC, or other established utility groups, are used as input or the basis for supplier qualification whenever appropriate."

and

"NMC will review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). In addition, results are reviewed periodically to

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determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action.”

This exception is acceptable for CGG because CGG has taken an approach to the ongoing evaluation of supplier performance consistent with the NMC exception. This exception will not reduce the effectiveness of the supplier evaluation program, as CGG will implement all the applicable provisions for an ongoing evaluation process contained in the previously approved NMC exception. This exception applies to Nine Mile Point, Ginna, and Calvert Cliffs.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

Exception 9, Section A.7.3, Item 6.e

Exception to ANSI N45.2.4-1972 Section 6.2.1, regarding an exception to the use of calibration stickers.

In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant instrumentation that contain the date of calibration and identify the person that performed the calibration. Instead calibrations of instruments are scheduled and tracked by a computer database. The information in the database insures the calibration information meets the requirements of the standard and is correlated with the equipment by unique identification numbers on the equipment.

This alternative is consistent with the provision approved by the NRC in Safety Evaluation Report “Entergy Operations, Inc. Quality Assurance Program Consolidation,” dated November 6, 1998. The intent of the alternative was to allow other methods of identifying equipment with calibration information other than by tagging. The staff recognized approved alternative methods, such as using a calibration log that is correlated with the equipment by unique identification numbers on the equipment. The staff found that alternatives to tagging equipment with calibration information are acceptable and that the requirements of 10 CFR Part 50, Appendix B continue to be met.

This alternative is acceptable for CGG because the currently approved quality assurance programs for Calvert Cliffs and Nine Mile Point already incorporate the same alternatives and process as approved for NMC. The inclusion of this exception into the Fleet QATR extends the exception to Ginna and is acceptable because it will be implemented with the same controls and process as currently in place at Calvert Cliffs and Nine Mile Point.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

Exception 10, Section A.7.3, Item 7.a

Exception to Regulatory Guide 1.33, Revision 2, Regulatory Position C, regarding the incorporation of ANSI N18.7-1976 requirements into the QATR:

Constellation Generation Group recognizes that NRC Regulatory Guide 1.33, “Quality Assurance Program Requirements (Operations)” endorses ANSI Standard N18.7, “Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants”. The CGG plants

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have current commitments to this standard. We have concluded that the QATR, combined with our commitment to Regulatory Guide 1.28, provides an acceptable alternative to Regulatory Guide 1.33 and ANSI N18.7-1976, in that the QATR provides quality assurance and administrative control requirements consistent with that guidance, as well as a quality assurance program that meets 10 CFR Part 50, Appendix B. Attachment 3 to the QATR submittal is a table illustrating that the quality assurance requirements of N18.7-1976 are addressed through our commitment to NQA-1-1994, and the administrative controls of N18.7 are addressed by inclusion of equivalent requirements within the text of the QATR.

Exception 11,

Section A.7.3, Item 7.e

An exception to Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, regarding performing biennial internal audits in lieu of the six and twelve month audit frequencies specified for some activities. In addition, a 90 day grace period may be applied to the 24-month audit frequency.

Regarding biennial internal audits, this exception is acceptable because it continues similar exceptions previously approved by the NRC for Calvert Cliffs, Nine Mile Point and Ginna. Each CGG site has a current exception to the six and twelve month audit frequencies specified in Regulatory Position C.4 of Regulatory Guide 1.33. Ginna's exception was approved by the NRC on March 22, 1995, under a 10 CFR 50.54(a) submittal. Calvert Cliff's exception was included in their October 18, 1996 submittal to the NRC of Revision 47 of the QA Policy document. Nine Mile Point's exception was included in their October 24, 2005 submittal to the NRC of Revision 19 to the Nine Mile Point Unit 1 UFSAR.

Regarding the 90 day grace period, Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, requires that the audits of all safety-related functions are completed within a period of 2 years, with certain clarifications. The regulatory guide does not address any grace period for the audits, thereby defaulting to a literal interpretation of every two years. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, "Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backward when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

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Exception 12,

Section A.7.3, Item 11

Exception to Regulatory Guide 1.39, September 1977, Regulatory Positions C.1, C.2 and C.3, regarding the use of NQA-1-1994, Subpart 2.3 in lieu of ANSI N45.2.3: this exception was based on the 2005 Dominion fleet QATR submittal. Dominion used the exception to establish an alternative program for housekeeping requirements. This is acceptable for CGG because the NRC staff found that wording of NQA-1-1994 Subpart 2.3 contains equivalent requirements to Regulatory Guide 1.39, September 1977, and ANSI N45.2.3-1973. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities.

Exception 13,

Section A.7.3, Item 15

Exception to Regulatory Guide 1.116, May 1977, regarding the substitution of NQA-1-1994, Subpart 2.8 for ANSI N45.2.8:

Relating to Regulatory Positions C.1 and C.2:

This exception substitutes NQA-1-1994, Subpart 2.8 for ANSI N45.2.8 in committing to Regulatory Guide 1.116. Constellation Generation Group is taking this exception for Ginna, Nine Mile Point and Calvert Cliffs.

ANSI N45.2.8-1975, "Supplementary Quality Assurance Requirements for Installation, Inspection and Testing of Mechanical Equipment and Systems for the Construction Phase of Nuclear Power Plants" discusses scope, applicability, responsibility, definitions, planning, procedures and instructions as well as housekeeping, and personnel qualifications. It additionally has sections providing direction on functional tests, installed systems inspections, care of items, data analysis and records. A line-by-line review of NQA-1-1994, Subpart 2.8, Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants has demonstrated that the content meets the criteria established by ANSI N45.2.8.

This exception is based on the 2005 Dominion QATR which states that 10 CFR 50.54(a)(3)(1) allows the use of a QA standard approved by the NRC which is more recent than the QA Standard in the current QA program at the time of the change. The NRC Safety Evaluation for the Dominion QATR submittal noted that ANSI N45.2.8 NQA-1-1994, Subpart 2.8 "contain equivalent requirements."

This exception is acceptable for CGG because of the NRC's determination that the two standards are equivalent.

Relating to Regulatory Position C.3:

After further review, CGG has determined that this QATR will not apply to any new construction plants that CGG builds. These will be covered by a separate QATR submitted by Unistar. Therefore, since the existing CGG plants have completed their pre-operational, cold functional and hot functional testing, there is no need to take an exception to this regulatory position, and CGG withdraws the previous exception to Regulatory Position C.3.

Attachment 4 of the QATR submittal regarding Exception 13 is revised to read:

Exception:

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CGG substitutes NQA-1-1994, Subpart 2.8 for N45.2.8 in its commitment to Regulatory Guide 1.116, May 1977. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.8 includes commitment to those standards to the extent necessary to implement Subpart 2.8 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the endorsed standard should be "followed for those applicable operations phase activities that are comparable to activities occurring during the construction phase." This is addressed in section B.12 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.8.

Basis:

CGG is adopting ASME NQA-1-1994 Subpart 2.8 consistent with the provisions approved by the NRC in Safety Evaluation of Proposed Change to the Quality Assurance Program, Quality Assurance Program Consolidation for Dominion Nuclear Connecticut, Inc. and Virginia Electric and Power Company, dated September 9, 2005. The NRC staff found that NQA-1-1994 Subpart 2.8 contains equivalent requirements to Regulatory Guide 1.116, May 1977, and ANSI N45.2.8-1975.

This alternative is acceptable based on providing an equivalent level of control over installation, inspection and testing of mechanical equipment and systems.

Exception 14, Section A.7.3, Item 20

An exception to Regulatory Guide 4.15, Revision 1, regarding the following aspects of Radiological Monitoring Programs.

This exception is for Ginna, Nine Mile Point and Calvert Cliffs. In establishing a commitment to Regulatory Guide 4.15 in the QATR, CGG is taking three exceptions to the regulatory guide. These three areas of exception are:

- a. An alternative to evaluation of gamma spectroscopy instrumentation background results by plotting background parameters
 - b. Not requiring use of the NRC's independent sampling and analysis program
 - c. Performing source check calibrations at least once per refueling interval rather than once per 18 months.
-
- a. In accordance with Regulatory Position C.6.2, CGG plots (i.e. graph paper) and trends backgrounds on all laboratory instrumentation with the exception that an alternate method may be used for gamma spectroscopy. In this case, an alternate but equally effective method may be implemented: Gamma isotopic backgrounds are counted routinely and all nuclides are checked for the presence of contamination (i.e. a peak) to ensure each background for each nuclide does not impact any analysis result. If contamination is detected (i.e. a peak is identified), remedial action is taken. Adequacy and accuracy of results are checked in an inter-laboratory test program. Inter-laboratory and intra-laboratory test data are carefully evaluated to determine bias. This method performs the same function as graphing the data without the need to actually plot the data on graph paper. This reduces an unnecessary administrative burden without loss of quality relative to identification of background contamination.

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- b. The exception to the NRC's independent sampling and analysis program (Regulatory Position C.6.3.2) is based on the NRC having discontinued their Confirmatory Measurements Program.
- c. Regulatory Position C.7, "Quality Control for Continuous Effluent Monitoring Systems," states that sources that have been related to initial calibration should be used to check this initial calibration at least once per 18 months (normally during refueling outages). Calvert Cliffs and Nine Mile Point currently have 24 month refueling cycles. This change of frequency allows source check calibrations consistent with Technical Specification amendments such as the "Twenty Four Month Cycle Technical Specification Amendments for Calvert Cliffs Nuclear Power Plants Units 1 and 2" issued November 3, 1987 in the Safety Evaluation by the Office of Nuclear Reactor Regulation. This alternative remains consistent with the intent of this Regulatory Guide, specifically to periodically perform source check calibrations.

The corresponding basis for the exception in QATR Attachment 4 has been revised to reflect this response.

Exception 15,

Section A.7.3, Item 23

Exception to Generic Letter 82-21, regarding fire protection audit frequencies.

In lieu of the 12, 24, and 36 month fire protection audits described in Generic Letter 82-21, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures.

This exception was based on previously approved Ginna and Calvert Cliffs submittals. This exception was an alternative reviewed and accepted by the NRC staff for Revision 21 of Ginna's QAPSO in the "10 CFR 50.54 Quality Assurance Program Change Review" dated March 22, 1995. The annual fire protection audit requirement was incorporated into the biennial fire protection audit at Calvert Cliffs in Revision 43 to the QAP. Calvert Cliffs' revised QAP was reviewed and accepted by the NRC staff in the "10 CFR 50.54 Quality Assurance Program Change Review" dated September 25, 1996. This exception is already being implemented at Ginna and Calvert Cliffs.

This exception is acceptable for implementation by CGG as the biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant. This exception is already being implemented at Ginna and Calvert Cliffs. The inclusion in the CGG Fleet QATR extends the exception to Nine Mile Point, thus the exception will be implemented consistently throughout CGG.

The corresponding exception in QATR Attachment 4 has been revised to reflect this response.

In order to clarify this position Paragraph 23 of Section A.7.3 of the QATR is being revised to state:

"Generic Letter 82-21, "Technical Specification for Fire Protection Audits." In lieu of the 12-month, 24-month, and 36-month fire protection and loss prevention audits, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures. The biennial audit includes all the

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required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant.”

Exception 16, Section B.4, Item 1

Exception to NQA-1-1994 Supplement 4S-1, Section 2.3, regarding the use of alternative standards for procurement documents. This exception was based on the 2005 NMC fleet QATR submittal; NMC based it on a previous Palisades exception. Nuclear Management Company used this exception to establish alternative standards on which to base procurement documents. For existing long-term plant purchases that have imposed ANSI N45.2, or other NRC endorsed quality standards, that can be shown to be equivalent to NQA-1, CGG is not required to change the procurement document. For new procurement documents, CGG will specify the requirements of NQA-1 or Appendix B to 10 CFR Part 50. However, CGG may accept vendors implementing another NRC endorsed standard that has shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50. This alternative is acceptable because we continue to meet the requirements of 10 CFR Part 50, Appendix B.

Exception 17, Section B.4, Item 2

Exception to NQA-1-1994 Supplement 4S-1 and Supplement 7S-1, regarding an alternative for procurement of commercial grade items: This exception was based on the 2005 NMC fleet QATR submittal, NMC based it on a previous Palisades exception. Nuclear Management Company used this exception to establish alternative standards for the purchase of commercial grade items. The standard NQA-1-1994 does not address commercial grade dedication adequately, therefore an exception to NQA-1-1994 Supplements 4S-1 and 7S-1 is needed. The NRC staff conditionally endorsed EPRI NP-5652, “Guideline for the Utilization of Commercial Grade Items in Nuclear Safety Related Applications (NCIG-07),” in Generic Letter 89-02, “Actions to Improve the Detection of Counterfeit and Fraudulently Marketed Products.” This alternative is acceptable for CGG to assure the quality of procured vendor products.

Exception 18, Section B.4, Item 5

Exception to NQA-1-1994 Supplement 7S-1, Section 8.1, regarding when procurement documentation shall be available on site: this exception was based on the 2005 NMC fleet QATR submittal; NMC based it on a previous Palisades exception. This alternative is acceptable for CGG because it still ensures that safety-related equipment will meet 10 CFR Part 50, Appendix B requirements for control of purchased items prior to their being made operable.

Exception 19, Section B.4, Item 4

An exception to NQA-1-1994 Supplement 7S-1, regarding the requirement for the purchaser and supplier to mutually establish the post installation test requirements and acceptance documentation for procured items/services.

NQA-1-1994 Supplement 7S-1 Paragraph 8.2.4 addresses post-installation testing as a method of acceptance of an item or service only. On the relatively rare occasion of using this method of acceptance it would typically be combined with one or more of the other methods discussed in Section 8.2 of 7S-1. (It should note that cases of acceptance of commercial grade items for safety-related applications by means of post-installation testing may be more common, however dedication activities are not included in this section of 7S-1.)

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This alternative is consistent with the provisions approved by the NRC on December 31, 1985 with Revision 1 to the Niagara Mohawk Power Corporation Quality Assurance Topical Report, NMPC-QATR-1. The basis for this alternative was to clarify that Niagara Mohawk Power Corporation was ultimately responsible for the activities performed at the plants, including acceptance of items and services. This alternative was originally related to the 1983 edition of NQA-1. Similar wording is contained in NQA-1-1994.

This exception is already being implemented at Nine Mile Point. The exception is acceptable for Calvert Cliffs and Ginna because: 1) all CGG sites share the same procurement process, and 2) CGG is ultimately responsible for the activities performed at the plants, including acceptance of items and services. This exception does not eliminate the participation of the supplier in developing post-installation test requirements and acceptance documents. Rather this exception only clarifies that the final responsibility for the QA Program resides with CGG.

The corresponding exception in QATR Attachment 4 has been revised to reflect this response.

**Exception 20,
Section B.7, Item 2**

Exception to NQA-2-1983, regarding the scope of applicability of NQA-2 requirements at Nine Mile Point only: this exception is acceptable because it continues a pre-approved NRC exception previously granted to Nine Mile Point Nuclear Station. It does not extend the exception to other CGG sites.

**Exception 21,
Section B.7**

Exception to NQA-1-1994 Subpart 2.3, regarding the five-level housekeeping zone designation.

The five-level zone designation requirement in Subpart 2.3 is one method of applying adequate housekeeping controls. Control over housekeeping activities can also be established by developing processes and procedures based on a consideration of what is necessary and appropriate for the activity involved. The controls can be implemented through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions can make use of standard janitorial and work practices to the extent possible.

This exception was based on the 2005 NMC fleet QATR submittal. Nuclear Management Company based it on a previous Palisades exception. This alternative was approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. A similar exception was approved for Dominion by the NRC in "Approval of Dominion Nuclear Connecticut and Virginia Electric and Power Company Quality Assurance Program Description Topical Report for Millstone, Units 1, 2 & 3, North Anna, Units 1 & 2, and Surry, Units 1&2, dated September 9, 2005.

In establishing the basis for their exception, NMC noted:

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“NMC bases its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are affected through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible.”

In establishing the basis for their exception, Dominion noted:

“The Company may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control required by the subpart. This will include as a minimum documented cleanliness inspections, which will be performed prior to system closure. As necessary, (e.g., the size of the opening would permit entry of the tools being used) control of personnel, tools, equipment, and supplies will be established when major portions of the reactor system are opened for inspection, maintenance, or repair. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities.”

Similar to NMC and Dominion, CGG may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control required by the subpart. In implementing this exception, CGG will address the same considerations, controls, and factors used by Dominion and NMC. This exception is acceptable for Ginna, Calvert Cliffs and Nine Mile Point because it provides an equivalent level of control over housekeeping activities.

The corresponding exception in QATR Attachment 4 has been revised to reflect this response.

Exception 22, Section B.15, Item 1

Exception to NQA-1-1994 Supplement 17S-1, section 4.2(b), regarding methods of records storage: this exception was based on the 2005 NMC fleet QATR submittal; NMC based it on a previous Palisades exception. Nuclear Management Company used this exception to establish alternative standards for records storage. This alternative is acceptable for CGG as it still ensures adequate protection of records and meets the requirements of 10 CFR Part 50, Appendix B.

Exception 23, Section B.15, Item 2

Exception to NQA-1-1994 Supplement 17S-1 Section 4.4, regarding alternative storage locations: this exception is taken from an existing Calvert Cliffs exception for alternative storage location requirements. The alternative is acceptable for CGG because it provides equivalent storage requirements to NQA-1-1994 and continues to meet the storage requirements of 10 CFR Part 50, Appendix B.

Exception 24, Section B.15, Item 3

Exception to NQA-1-1994 Supplement 17S-1, Section 4.4.1(a), regarding alternative records vault construction requirements at Calvert Cliffs only: this exception is acceptable because it continues a pre-approved NRC exception previously granted to Calvert Cliffs Nuclear Power Plant. It does not extend the exception to other CGG sites.

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2. *Exception to Supplement 2S-1 states that, "Inspections, examinations and tests may be performed by individuals in the same organization as that which performed the work,..."*

Explain why this exception is taken under personnel training and qualification and not under inspection.

Supplement 2S-1 pertains to qualification of independent quality assurance inspectors. This exception allows maintenance personnel who meet the qualifications stated in the QATR to also perform inspections. Therefore, the portion of the exception to the training requirements of Supplement 2S-1 that states, "Inspections, examinations and tests may be performed by individuals in the same organization as that which performed the work,..." is only related to training and qualification of the inspection staff and not to inspection performance, does not require an exception to NQA-1-1994 Basic Requirement 10, and is in accordance with 10 CFR Part 50, Appendix B.

Additionally, the QATR states in Section B.10, "Inspections," that "inspections are carried out by properly qualified persons independent of those who performed or directly supervised the work."

Explain why this statement is not in conflict with the exception.

The exception to Supplement 2S-1 is related to the training of inspection personnel. Title 10 CFR Part 50, Appendix B requires inspections to be performed by individuals other than those who performed the activity. Likewise, NQA-1-1994, Basic Requirement 10 adds that inspection for acceptance shall be performed by persons other than those who performed or directly supervised the activity. We committed to these requirements in QATR Section B.12. Individuals and supervisors in the same organization that performed an activity may perform the inspections, as long as they are not the persons who performed or supervised the activity.

3. *For the exception taken under Supplement 2S-1 regarding the three levels of qualification/certification of inspectors, provide the initial qualification requirements for inspectors. Refer to Dominion QA Consolidation submittal, Attachment 2, "Description of Changes," and the associated supplemental document dated August 24, 2004, and May 5, 2005, respectively, for an example.*

As addressed in the response for Attachment 4, Question 1, Exception 7, Constellation has withdrawn the exemption and will comply with the requirements of the three levels of qualifications as stated in NQA-1-1994 Non-Mandatory Appendix 2A-1.

4. *The Supplement 2S-2 alternative regarding the qualification of non-destructive examination personnel should also specify Section III of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code.*

Section III of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code is added to the Supplement 2S-2 alternative. The alternative now reads:

"In lieu of Supplement 2S-2, CGG will follow the applicable standard cited in the latest version(s) of Sections III and XI of the ASME Boiler and Pressure Vessel Code approved by the NRC for use at CGG sites for qualification of nondestructive examination personnel."

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5. *For the Supplement 2S-3 alternative regarding the requirements for lead auditors, CGG mentions that this alternative is consistent with the approved alternative for the Nuclear Management Company (NMC). The NMC basis for this alternative was taken from the Palisades Quality Program Description, Revision 21, approved by the staff on April 18, 1997. The approval of this alternative was based on the following requirements: (1) the prospective lead auditor effectively demonstrates ability to lead and implement audit process; (2) the licensee describes the demonstration process in written procedures; and (3) the prospective lead auditor shall have participated in at least one nuclear audit in the last year. In addition, this alternative was based on individuals that have related experience and are capable of demonstrating the ability to lead audits in fewer than five audits.*

Provide an explanation of your basis for this exception, and how it relates to the approved basis. Note that in order to use this alternative all bases need to be met and the statement must read: "The prospective lead auditor shall demonstrate his/her ability to properly implement the audit process, as implemented according to Section C.2 of the QATR, to effectively organize and report results, including participation in at least one nuclear audit within the year preceding the date of qualification."

The alternative to NQA-1-1994 Supplement 2S-3 is revised to read:

For Supplement 2S-3: The requirement that prospective Lead Auditors have participated in a minimum of five (5) audits in the previous three (3) years is replaced by the following, "The prospective lead auditor shall demonstrate his/her ability to effectively lead and implement the audit process, as implemented according to Section C.2 of the QATR, and to effectively organize and report results, including participation in at least one nuclear audit within the year preceding the date of qualification. Constellation Generation Group describes this process in written procedures and shall evaluate and document the results of the demonstration."

The revised alternative aligns closer to the existing exceptions under the current site's Quality Assurance programs. As described in the "Revised Submittal of Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated December 21, 1998, the revised requirements for certification of lead auditors are consistent with the guidance provided by the NRC in a letter "Review of Nuclear Energy Institute Proposed Improvements to QA Programs," dated October 24, 1996. The revised requirement meets the intent of Section 3.3 of NQA-1-1994 to have the prospective lead auditor demonstrate the ability to effectively implement the audit process and to lead an audit team. Since the revised requirements meet the intent of the original requirement and the NRC has proposed this approach as an acceptable alternative, this change does not reduce the scope of the quality assurance program.

The NRC notes in their Safety Evaluation Report to R.E. Ginna Nuclear Power Plant, dated April 6, 1999, that in an October 24, 1996 letter to the Nuclear Energy Institute, the NRC staff provided its position with regards to acceptable industry proposed alternatives on quality assurance processes for qualifying auditors and for conducting annual evaluations of suppliers. Rochester Gas and Electric's proposed alternative for certifying lead auditors, as described was consistent with the staff's position in the cited letter and is, therefore, acceptable.

6. *For the alternative to RG 1.28, Revision 3, Regulatory Position C.3.2.2 regarding annual supplier evaluation, provide an explanation for the evaluation of a supplier to which no periodic (more than a year) supplies are received in order to implement an ongoing receipt inspection, operating experience, and a supplier evaluation program.*

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The basis for Exception 8 has been revised to address the evaluation of a vendor for which no activity has occurred for more than a year to assess vendor performance.

If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes.

Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

7. *For the exception to RG 1.116, Regulatory Position C.3, provide the basis for using RG 1.116 as an alternative to RG 1.68. Additionally, for the new reactor licensing process, RG 1.68 must be used.*

As addressed in the response to Attachment 4, Question 1, Exception 13, CGG has determined that the CGG QATR will not apply to new construction plants, and has withdrawn the exception to Regulatory Position C.3 of Regulatory Guide 1.116.

8. *For the Supplement 4S-1, Section 2.3 alternative regarding procurement documents applying other NRC endorsed standards, CGG's basis for this alternative must be that for existing long-term plant purchases that have imposed ANSI N45.6, or other endorsed quality standards that can be shown to be equivalent to NQA-1, the licensee is not required to change the procurement document. For new procurement documents, the licensee must specify the requirements of NQA-1 or Appendix B to 10 CFR Part 50. However, the licensee may accept vendors implementing another NRC endorsed standard that are shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50 program.*

We have revised our basis for this alternative consistent with this guidance. The revised basis now reads:

"For existing long-term plant purchases that have imposed ANSI N45.2, or other NRC endorsed quality standards, that can be shown to be equivalent to NQA-1, CGG is not required to change the procurement document. For new procurement documents, CGG will specify the requirements of NQA-1 or Appendix B to 10 CFR Part 50. However, CGG may accept vendors implementing another NRC endorsed standard that has shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50. This alternative is acceptable because we continue to meet the requirements of 10 CFR Part 50, Appendix B."

9. *The NRC staff described in Generic Letters (GLs) 89-02 and 91-05 the expectations for an effective commercial-grade dedication program. GL 91-05 discusses the characteristics of effective procurement and dedication programs previously discussed in GL 89-02 and provides examples of specific failures by licensees to effectively implement these characteristics for dedicating and ensuring the suitability of commercial-grade products for safety-related applications. For the alternative to Supplement 4S-1 and Supplement 7S-1 regarding the use of the guidance contained in GL 89-02 to procure commercial grade items, the NRC staff recommends adding the guidance contained in GL 91-05.*

We have added the guidance contained in GL 91-05 to the alternative to Supplement 4S-1 and Supplement 7S-1 in Section B.4. The alternative now reads:

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“For Supplement 4S-1 and Supplement 7S-1, CGG will use the guidance contained in Generic Letters 91-05 and 89-02/EPRI NP-5652 to procure commercial grade items in lieu of these requirements.”

We also added a commitment to GL 91-05 in Section A.7.3, which reads:

“Generic Letter 91-05 (April 1991) – CGG commits to compliance with the guidance regarding licensee commercial-grade procurement and dedication programs.”

ATTACHMENT (2)

QATR Markup

A. MANAGEMENT**A.1 METHODOLOGY**

The President of Constellation Generation Group, LLC (CGG), establishes the CGG quality assurance policy. This policy is set forth in the CGG Corporate Statement of Quality Assurance Policy and is binding on all organizations and individuals performing CGG quality affecting activities at operating plants. The policy is implemented under the overall direction of the Senior Vice President and Chief Nuclear Officer, CGG.

The quality assurance program comprises those planned and systematic actions necessary to provide confidence that structures, systems, and components will perform their intended safety functions. The quality assurance program consists of the NRC approved regulatory document that describes the quality assurance program elements (the QATR) along with the associated corporate, fleet, and site implementing documents. Appropriate sections in the QATR contain a "Quality Standard Reference" which describes applicable commitments to related NQA-1-1994 sections. The Quality Standard referenced in each section will be reviewed in addition to the QATR when determining station quality requirements. Nuclear directives establish high-level responsibilities and authority for carrying out important functions. Fleet procedures establish common practices for certain activities such that the activity is controlled and carried out in a manner that meets quality assurance program requirements. Site and department procedures establish detailed implementation requirements and methods, and may be used to implement nuclear directives and fleet procedures or be unique to particular functions or work activities. In addition, to provide a clear understanding of CGG operating philosophy, CGG establishes rules of practice pertaining to personnel conduct and control, including consideration of job related factors which can influence the effectiveness of operating and maintenance personnel, including such factors as number of hours at duty station, availability on-call of professional and supervisory personnel, method of conducting operations, and preparing and retaining plant documents. Such rules are contained within appropriate implementing documents.

The quality assurance program applies to activities affecting the performance of safety-related structures, systems and components, including, but not limited to, design; construction; procurement; fabrication; installation; modification; maintenance; repair; refueling; operation; training; inspection; tests; and decommissioning. A list or other means of identification, of safety-related Systems, Structures, and Components (SSC) under the control of the quality assurance program is established and maintained for each operating plant. The technical aspects of the items are considered when determining program applicability, including, as applicable, the item's design safety function, the ASME Code and the other references cited in section A.7.3 of this QATR. The quality assurance program is also applied to certain activities where regulations other than 10CFR50 establish quality assurance program requirements for activities within their scope. Thus, this QATR is applied to the "important to safety" activities of radioactive waste shipping and independent spent fuel storage, as defined in those NRC regulations, as allowed by 10CFR71.101(f) and 10CFR72.140(d).

It is CGG's policy to assure a high degree of availability and reliability of its nuclear plants while ensuring the health and safety of the public and its workers. To this end, selected elements of the quality assurance program are also applied to certain equipment and activities that support safe and reliable plant operations, or where other non-CFR NRC guidance establishes program requirements. These include, but may not be limited to, emergency preparedness, security, radiation protection and fire protection. Implementing documents establish program element applicability.

Activities affecting quality are prescribed by and performed according to documents (such as instructions, procedures or drawings) of a type appropriate to the circumstances and which, where applicable, include quantitative or qualitative acceptance criteria. Such documents are prepared and controlled according to section B.14. In addition, means are provided for dissemination to plant staff of instructions of both general and continuing applicability (e.g., dealing with job turnover and relief, designation of confines of the control room, limitations on access to certain areas), as well as those of

the work shall be stopped and the plant placed in a safe condition. Work shall not resume until the procedure is changed to reflect correct work practices.

In addition, operating personnel responsibilities include:

1. The reactor operator's authority and responsibility for shutting down the reactor when it is determined that the safety of the reactor is in jeopardy or when operating parameters exceed any of the reactor protection system set-points and automatic shutdown does not occur.
2. The responsibility to determine the circumstances, analyze the cause, and determine that operations can proceed safely before the reactor is returned to power after a trip or an unexplained or unscheduled power reduction.
3. The senior reactor operator's responsibility to be present at the plant and to provide direction for returning the reactor to power following a trip or an unscheduled or unexplained power reduction.
4. The responsibility to believe and respond conservatively to instrument indications unless they are proved to be incorrect.
5. The responsibility to adhere to the plant's Technical Specifications.
6. The responsibility to review routine operating data to assure safe operation.
7. The responsibility to take action to minimize personnel injury or damage to the facility and to protect the health and safety of the public in the event of an emergency not covered by approved procedures.

In establishing quality assurance program responsibilities, CGG commits to compliance with NQA-1-1994, Basic Requirement 1 and Supplement 1S-1.

A.4 AUTHORITY

Persons or organizations who are delegated responsibility for planning, establishing, or implementing any part of the CGG quality assurance program also have the authority to carry out those responsibilities.

Nuclear operations and support organization personnel are empowered to take stop work action on their own activities if they determine that continuing the activity would preclude identifying and correcting a condition adverse to quality or lead to an unsafe condition. Designated independent inspection and audit personnel have the authority to stop work within nuclear operations and support organizations, and at supplier locations. The Plant General Managers have stop work authority for all activities performed in operating their respective stations, including the final responsibility for the overall evaluation of shutting down an operating unit.

Deleted: .

In establishing quality assurance program authorities, CGG commits to compliance with NQA-1-1994, Basic Requirement 1 and Supplement 1S-1.

A.5 PERSONNEL TRAINING AND QUALIFICATION

Personnel assigned to implement elements of the QA program must be capable of performing their assigned tasks. To this end, CGG establishes and maintains formal indoctrination and training programs for personnel performing, verifying or managing activities within the scope of the QA program to assure that suitable proficiency is achieved and maintained. Generating site and support staff minimum qualification requirements are as delineated in each site's Technical Specifications. Other qualification requirements may be established but will not reduce those required by Technical Specifications. Sufficient managerial depth is provided to cover absences of incumbents. When required by code, regulation, or standard, specific qualification and selection of personnel is conducted in accordance with those requirements as established in the applicable CGG procedures. Indoctrination includes the administrative and technical objectives, requirements of the applicable codes and standards, and the QA program elements to be employed. Training for positions identified in 10CFR50.120 is accomplished according to programs accredited by the National Nuclear Accrediting Board of the National Academy of Nuclear Training that implement a systematic approach to training. Records of personnel training and qualification are maintained.

In establishing qualification and training programs, CGG commits to compliance with NQA-1-1994 Basic Requirement 2 and Supplements 2S-1, 2S-2, 2S-3 and 2S-4, with the following alternatives and exceptions:

1. For Supplement 2S-1: Inspections, examinations or tests may be performed by individuals in the same organization as that which performed the work, provided that (a) the qualifications of the inspector for an activity are equal to or better than the minimum qualifications for persons performing the activity, (b) the work is within the skills of personnel and/or is addressed by procedures, and (c) if work involves breaching a pressure-retaining item, the quality of the work can be demonstrated through a functional test. When a, b and c are not met, inspections, examinations or tests are carried out by individuals certified in accordance with Supplement 2S-1. Individuals performing visual inspections required by the ASME Boiler and Pressure Vessel Code are qualified and certified according to Code requirements.
2. In lieu of being certified as Level I, II or III in accordance with Non-mandatory Appendix 2A-1 of NQA-1-1994, personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests of material products or activities, that are in the same organization as that which performed the work, will be required to possess the same minimum level of qualification as that required for performing the task being verified. The verification shall be within the skills of these personnel and/or is addressed by procedures. These individuals will not be responsible for the planning of quality verification inspections and tests (i.e. establishing hold points and acceptance criteria in procedures, or determining who will be responsible for performing the inspections), evaluating inspection training programs, or certifying inspection personnel.
3. In lieu of Supplement 2S-2, CGG will follow the applicable standard cited in the latest version(s) of Sections III and XI of the ASME Boiler and Pressure Vessel Code approved by the NRC for use at CGG sites for qualification of nondestructive examination personnel.
4. For Supplement 2S-3: The requirement that prospective Lead Auditors have participated in a minimum of five (5) audits in the previous three (3) years is replaced by the following, "The prospective lead auditor shall demonstrate his/her ability to properly implement the audit process according to section C.2 of this QATR, and to effectively organize and report results, including participation in at least one nuclear audit within the year preceding the date of qualification. Constellation Generation Group describes this process in written procedures and shall evaluate and document the results of the demonstration."

commits to implement the requirements of NQA-1-1994 Part I. CGG's commitment to these requirements and any exceptions/alternatives to these requirements are addressed in this QATR.

- b. CGG uses the list of records in position C.2 (Table 1) to establish the types of records that will be created and retained in support of plant operation. Table 1 addresses design, construction and initial start-up records and will be applied to operating and decommissioning phase records that are similar in nature to the construction records. Additional operations phase records and their retention periods are identified in Appendix D to this QATR.
- c. The guidance in Regulatory Position C.3.2 regarding external audits will also be implemented during the operational phase. CGG complies with Regulatory Position C.3.2 with the exception that for Regulatory Position C.3.2.2, CGG may review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). Additionally, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action. If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes. Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

A grace period of 90 days may be applied to the performance of triennial supplier audits described in Regulatory Position 3.2.1. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

- 5. Safety/Regulatory Guide 1.29, Revision (site-specific) "Seismic Design Classification" – CGG plants may have been designed, constructed and licensed based on criteria available prior to this Regulatory Guide being issued. The specific design criteria and seismic designations are reflected in each plant's SAR, and in other docketed analysis. Thus, the commitment to Safety/Regulatory Guide 1.29 is site-specific, as required by the approved SAR/License at each CGG site. Sites may use this guidance to assist in establishing the lists of equipment to which this QA program applies, or for other purposes.
- 6. Regulatory Guide 1.30, August 1972, "Quality Assurance Requirements for the Installation, Inspection and Testing of Instrumentation and Electric Equipment," (ANSI N45.2.4-1972/IEEE 336-1971):
 - a. CGG commits to ANSI N45.2.4-1972/IEEE 336-1971 in its commitment to Position C of Regulatory Guide 1.30.
 - b. As noted in Regulatory Position C.1, ANSI N45.2.4-1972 is being used in conjunction with NQA-1-1994, Part I, which replaced ANSI N45.2.
 - c. As noted in Regulatory Position C.2, other industry standards may be referenced. The commitment in this QATR to ANSI N45.2.4-1972 includes commitment to those standards to the extent necessary to implement ANSI N45.2.4-1972 requirements. If NRC guidance applies to those referenced standards, it is followed.
 - d. Consistent with Regulatory Position C.3, the requirements of the endorsed standard are also considered applicable during the operation phase of the nuclear power plant.
 - e. In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant compliance with Part 2.15, NMPNS is committed to the requirements of applicable

- heavy load reports for Nine Mile Point Units 1 and 2 that have been approved by the NRC. Unit 2's report is a part of the SAR (Appendix 9C). Unit 1's is a separate report.
11. Regulatory Guide 1.39, Revision 2, September 1977, "Housekeeping Requirements for Water-Cooled Nuclear Power Plants," (ANSI N45.2.3-1973) – CGG substitutes NQA-1-1994, Subpart 2.3 for N45.2.3 in its commitment to Regulatory Guide 1.39. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.3 includes commitment to those standards to the extent necessary to implement Subpart 2.3 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the provisions of section 3.2.3 of N45.2.3 are not part of the regulatory endorsement. As NQA-1, Subpart 2.3, section 3.2.3 has the same wording as N45.2.3; the Regulatory Position is applicable and will be followed in CGG's implementation of Subpart 2.3. Regulatory Position C.3 indicates that the endorsed standard is "applicable for housekeeping activities during the operations phase that are comparable to those occurring during construction." This is addressed in section B.7 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.3.
 12. Regulatory Guide 1.54, Revision (site-specific), "Quality Assurance for Protective Coatings Applied to Nuclear Power Plants" (N101.4-1972) - The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
 13. Regulatory Guide 1.68, Revision (site-specific), "Preoperational and Initial Startup Test Programs for Water-Cooled Power Reactors," - The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
 14. Regulatory Guide 1.94, Revision (site-specific), "Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete and Structural Steel During the Construction Phase of Nuclear Power Plants," (ANSI N45.2.5-1974) – CGG plants may have been designed, constructed and licensed based on criteria available prior to this Regulatory Guide being issued. The specific installation, inspection, and testing criteria are reflected in each plant's SAR, and in other docketed analysis. Thus, the commitment to Regulatory Guide 1.94 is site-specific, as required by the approved SAR/License at each CGG site. Sites may use this guidance to assist in establishing the equipment to which this QA program applies, or for other purposes.
 15. Regulatory Guide 1.116, Revision 0-R, May 1977, "Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems," (ANSI N45.2.8-1975) – CGG substitutes NQA-1-1994, Subpart 2.8 for N45.2.8 in its commitment to Regulatory Guide 1.116. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.8 includes commitment to those standards to the extent necessary to implement Subpart 2.8 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the endorsed standard should be "followed for those applicable operations phase activities that are comparable to activities occurring during the construction phase." This is addressed in section B.12 of this QATR which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.8.
 16. Regulatory Guide 1.143, Revision (site-specific), "Design Guidance for Radioactive Waste Management Systems, Structures and Components Installed in Light-water-Cooled Nuclear Power Plants" Commitment to Regulatory Guide 1.143 is site-specific, as required by the approved SAR at each CGG site. Sites may use this guidance to assist in establishing the lists of equipment to which this QA program applies, or for other purposes.
 17. Regulatory Guide 1.152, Revision 0, November 1985, "Criteria for Programmable Digital Computer System Software in Safety-Related Systems of Nuclear Power Plants" - CGG does not. In lieu of plotting background parameters and setting predetermined control values for

gamma spectroscopy instrumentation as described in Regulatory Position C.6.2, background results may be logged and evaluated to ensure the background does not bias reported results.

- b. The NRC's independent sampling and analysis program described in Regulatory Position C.6.3.2 may not be performed.
 - c. In lieu of performing source check calibrations at least once per 18 months as described in Regulatory Position C.7, CGG may perform these calibrations at least once per refueling interval.
- 21. Regulatory Guide 7.10, Revision 1, June 1986, "Establishing Quality Assurance Programs for Packaging Used in the Transport of Radioactive Material" – CGG commits to implement the quality assurance guidance for activities related to the packaging and transport of radioactive material that are under its control. Quality Assurance for the design, fabrication and licensing of shipping containers is the responsibility of the container certificate holders.
 - 22. Regulatory Issue Summary 2000-18, October 2000, "Guidance on Managing Quality Assurance Records in Electronic Media" – Should CGG choose electronic media storage as a means of maintaining required records, CGG will comply with the guidance of this Regulatory Issue Summary.
 - 23. Generic Letter 82-21, "Technical Specifications for Fire Protection Audits," In lieu of the 12-month, 24-month and 36-month fire protection and loss prevention audits, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures. The biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant.
 - 24. Generic Letter 91-05 (April 1991) – CGG commits to compliance with the guidance regarding licensee commercial-grade procurement and dedication programs.

continue to provide acceptable products and services. Source inspection (surveillance), certificate of conformance, receipt inspection, and pre- or post-installation testing are methods that are considered for item acceptance. The extent of the acceptance methods and associated verification activities will vary depending upon the relative importance and complexity of the purchased item or service and the supplier's past performance.

The contents of procurement documents vary according to the item and/or service being purchased and its function in the plant. Procurement documents include the following, as applicable:

1. Material description and/or scope of work to be performed.
2. Technical requirements with reference to applicable drawings, specifications, codes and standards identified by title, document number, revision and date. Any required procedures, such as special process instructions, are identified in such a way as to indicate source and need.
3. Regulatory, administrative and reporting requirements. This includes 10CFR21 requirements, specifications, codes, standards, tests, inspections, and special processes. (The QA programmatic requirements of ASME NQA-1 or ANSI N45.2 may be used, where appropriate.)
4. A requirement for a documented QA program.
5. A requirement for the supplier to invoke applicable quality requirements on subtier suppliers.
6. Provisions for access to supplier and subtier suppliers' facilities and records for inspections, surveillances and audits.
7. Identification of documentation to be provided by the supplier.
8. Provisions for documentation and dispositioning of nonconformances.

Spare and replacement parts are procured in accordance with the following provisions to assure that their performance and quality are at least equivalent to those of the parts that will be replaced:

1. Specifications and codes referenced in procurement documents for spare or replacement items are the same or equivalent to those for the original items or to the reviewed and approved revisions;
2. Where quality requirements for the original items cannot be determined, requirements and controls are established by an engineering evaluation; and
3. Any additional or modified design criteria imposed after previous procurement of the item(s), are identified and incorporated.

Appropriate controls are imposed for the selection, determination of suitability for intended use (critical characteristics), evaluation, receipt, and quality evaluation of commercial grade items or services to ensure that they will perform satisfactorily in service.

In establishing controls for procurement, CGG commits to compliance with NQA-1, 1994, Basic Requirements 4 and 7, and Supplements 4S-1 and 7S-1, with the following exceptions:

1. For Supplement 4S-1, Section 2.3, which requires procurement documents to require a quality program that complies with NQA-1, CGG may apply other nationally recognized and NRC endorsed quality standards, such as N45.2 or 10CFR50 Appendix B, as appropriate to the circumstances of the procurement.
2. For Supplement 4S-1 and Supplement 7S-1, CGG will use the guidance contained in Generic Letters 91-05 and 89-02/EPRI NP-5652 to procure Commercial Grade Items in lieu of these requirements.
3. For Supplement 7S-1, Section 8.1, documentary evidence that items conform to procurement requirements need not be available at the site prior to item installation, but will be available at the site prior to placing reliance on the item for its intended safety function.

2.0 NUCLEAR SAFETY REVIEW BOARD (NSRB)

The NSRB shall ensure that periodic independent reviews and audits of activities are conducted by qualified individuals free from the pressures of plant operations. For new nuclear power plant construction, the NSRB shall be functional at least one year prior to initial core loading. The NSRB serves in an advisory capacity to the CNO.

2.1 REVIEW RESPONSIBILITIES

The NSRB shall ensure periodic independent reviews and audits of activities as stated in the facility Technical Specifications and this QATR are performed. Review of events shall include the results of any investigations made and the recommendations resulting from such investigations to prevent or reduce the probability of recurrence of the event. Additional review activities by the NSRB should be performed to verify adequate organizational response to adverse performance trends.

The NSRB should monitor the results of audits, evaluations, and assessment activities to ensure that items that could affect plant safety are reviewed. The NSRB may delegate review functions to subcommittees, that may include NSRB members, provided that the subcommittees report the results of their reviews to the NSRB.

2.2 COMPOSITION

The NSRB shall be composed of at least five members, including the Chairperson, of whom no more than a minority are members of the onsite operating organization. The CNO shall appoint, in writing, a Chairperson. The Chairperson shall appoint, in writing, a minimum of four members to the NSRB and shall designate from this membership, in writing, a Vice Chairperson. Consultants should be utilized as determined by the NSRB Chairperson to provide expert advice to the NSRB.

2.3 ALTERNATES

Alternates shall be designated in advance, but their use shall be restricted to legitimate absences of principals.

2.4 MEETING FREQUENCY

The NSRB shall meet at least once per six months.

2.5 QUORUM

The quorum of the NSRB necessary for the performance of the NSRB review and audit functions shall consist of a majority of regular members, including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of a Company nuclear facility.

2.6 RECORDS

Minutes of all NSRB meetings shall be prepared and retained. All documents reviewed should be identified. Decisions and recommendations made by the NSRB shall be documented. Minutes of each NSRB meeting shall be disseminated promptly to appropriate members of management having responsibility in the area reviewed. Records of meeting minutes shall be retained in accordance with Section B.15 of this QATR.

APPENDIX C**DEFINITIONS**

CGG uses the definitions of terms as provided in Section 4 of the Introduction of NQA-1-1994 in interpreting the requirements of NQA-1 and the other standards to which the QATR commits. In addition, definitions are provided for the following terms not covered in NQA-1:

Administrative controls: rules, orders, instructions, procedures, policies, practices and designations of authority and responsibility.

Assessment: assessing the level of performance, or output of an activity or organization, as compared to management expectations and industry standards of excellence. Recommendations are documented to achieve improvements in the assessed area.

Audit: A planned and documented activity performed to determine by investigation, examination, or evaluation of objective evidence the adequacy of and compliance with established procedures, instructions, drawings, and other applicable documents, and the effectiveness of implementation. An audit should not be confused with inspection activities performed for the sole purpose of process control or product acceptance

Emergency procedures: see Appendix B.

Experiments: performance of plant operations carried out under controlled conditions in order to establish characteristics or values not previously known.

Independent Assessment: the process used to provide ongoing independent evaluation and communication of results to management on program performance, trends, and management effectiveness.

Independent Review: review completed by personnel not having direct responsibility for the work function under review regardless of whether they operate as part of an organizational unit or as individual staff members.

Maintenance and modification procedures: written procedures defining the policies and practices by which structures, mechanical, electrical and instrumentation and control systems, and components thereof, are kept in a condition of good repair or efficiency so that they are capable of performing their intended functions.

Nuclear power plant: any plant using a nuclear reactor to produce electric power, process steam or space heating.

Off-normal condition procedures: written procedures which specify operator actions for restoring an operating variable to its normal controlled value when it departs from its range, or to restore normal operating conditions following a perturbation. Such actions are invoked following an operator observation or an annunciator alarm indicating a condition which, if not corrected, could degenerate into a condition requiring action under an emergency procedure. (May be called Abnormal, Off normal or other terms conveying the same intent.)

On-site operating organization: on-site personnel concerned with the operation, maintenance and certain technical services.

Operating activities: work functions associated with normal operation and maintenance of the plant, and technical services routinely assigned to the on-site operating organization.

Operating procedures: written procedures defining the normal methods, means and limits of operation of the nuclear power plant, a plant system or systems, or processes, including actions to be taken by operating personnel for removal from and return to service equipment on which maintenance is to be or has been performed.

Operational phase: that period of time during which the principal activity is associated with normal operation of the plant. This phase of plant life is considered to begin formally with commencement of initial fuel loading, and ends with plant decommissioning.

Review: a deliberately critical examination, including observation of plant operation, evaluation of assessment results, procedures, certain contemplated actions, and after-the-fact investigations of abnormal conditions.

Self-Assessment: an internal evaluation of the level of performance, or output of an activity or organization, as compared to management expectations and industry standards of excellence. Recommendations are documented to achieve improvements in the assessed area.

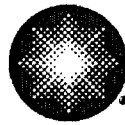
Supervision: direction of personnel activities or monitoring of plant functions by an individual responsible and accountable for the activities they direct or monitor.

Surveillance testing: periodic testing to verify that safety related structures, systems and components continue to function or are in a state of readiness to perform their functions.

System: an integral part of nuclear power plant comprising components which may be operated or used as a separate entity to perform a specific function.

ATTACHMENT (3)

Revised QATR Pages



Constellation Energy
Generation Group, LLC

QUALITY ASSURANCE TOPICAL REPORT

Revision 0

for

	<u>Docket Nos.</u>	<u>License Nos.</u>
Calvert Cliffs Nuclear Power Plant	50-317, 50-318	DPR-53, DPR-69
Nine Mile Point Nuclear Station	50-220, 50-410	DPR-63, NPF-69
R.E. Ginna Nuclear Power Plant	50-244	DPR-18

Approved

Date

9/1/06

B.S. Montgomery
Manager

Quality and Performance Assessment

Approved

Date

9/1/06

J. M. Heffley
Senior Vice President
and Chief Nuclear Officer

Constellation Generation Group, LLC
Corporate Statement of Quality Assurance Policy

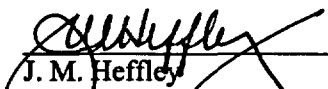
Constellation Generation Group, LLC is an advocate of quality performance in our daily activities. The quality assurance program described in procedures has been developed to assure that activities, as defined within the program scope, are being performed correctly and in conformance with applicable requirements. This program is designed to assure the safe operation of each Nuclear Station and to meet the requirements of Title 10, Code of Federal Regulations, Part 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants."

The quality assurance program applies to all activities affecting the safety related functions of those structures, systems, and components that prevent or mitigate the consequences of or monitor the course of postulated accidents, events, or phenomena that could cause undue risk to the health and safety of the public. These activities include operating, maintaining, modifying, refueling, testing, and inspecting. In addition, this program applies to 10 CFR 50 concerns associated with:

- maintaining the high degree of integrity of primary and secondary barriers of systems or structures containing radioactive materials.
- providing fire detection, suppression, and consequence mitigation items utilized both to protect the safety related structures, systems, and components and to assure safe operation in the event of postulated fire.
- providing assurance that instrumentation and controls which monitor accidents, or provide a secondary role in accident monitoring, function correctly and accurately.

This program also applies to the shipping of licensed radioactive material under 10 CFR 71, except for design and fabrication of shipping casks. The quality assurance program has also established controls to ensure that the construction, operational, and decommissioning phases for the Independent Spent Fuel Storage Installations (ISFSI) are conducted in compliance with 10 CFR 72.

The Chief Nuclear Officer has overall responsibility for implementing the quality assurance program. The Manager, Quality and Performance Assessment is responsible for coordinating the formulation of the quality assurance program and for assuring the program's implementation. Nuclear organization personnel are responsible for implementing the quality assurance program in accordance with the requirements of their procedures.



J. M. Heffley
Senior Vice President
and Chief Nuclear Officer

Date: 9/1/06

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A. MANAGEMENT

A.1 METHODOLOGY

The President of Constellation Generation Group, LLC (CGG), establishes the CGG quality assurance policy. This policy is set forth in the CGG Corporate Statement of Quality Assurance Policy and is binding on all organizations and individuals performing CGG quality affecting activities at operating plants. The policy is implemented under the overall direction of the Senior Vice President and Chief Nuclear Officer, CGG.

The quality assurance program comprises those planned and systematic actions necessary to provide confidence that structures, systems, and components will perform their intended safety functions. The quality assurance program consists of the NRC approved regulatory document that describes the quality assurance program elements (the QATR) along with the associated corporate, fleet, and site implementing documents. Appropriate sections in the QATR contain a "Quality Standard Reference" which describes applicable commitments to related NQA-1-1994 sections. The Quality Standard referenced in each section will be reviewed in addition to the QATR when determining station quality requirements. Nuclear directives establish high-level responsibilities and authority for carrying out important functions. Fleet procedures establish common practices for certain activities such that the activity is controlled and carried out in a manner that meets quality assurance program requirements. Site and department procedures establish detailed implementation requirements and methods, and may be used to implement nuclear directives and fleet procedures or be unique to particular functions or work activities. In addition, to provide a clear understanding of CGG operating philosophy, CGG establishes rules of practice pertaining to personnel conduct and control, including consideration of job related factors which can influence the effectiveness of operating and maintenance personnel, including such factors as number of hours at duty station, availability on-call of professional and supervisory personnel, method of conducting operations, and preparing and retaining plant documents. Such rules are contained within appropriate implementing documents.

The quality assurance program applies to activities affecting the performance of safety-related structures, systems and components, including, but not limited to, design; construction; procurement; fabrication; installation; modification; maintenance; repair; refueling; operation; training; inspection; tests; and decommissioning. A list or other means of identification, of safety-related Systems, Structures, and Components (SSC) under the control of the quality assurance program is established and maintained for each operating plant. The technical aspects of the items are considered when determining program applicability, including, as applicable, the item's design safety function, the ASME Code and the other references cited in section A.7.3 of this QATR. The quality assurance program is also applied to certain activities where regulations other than 10 CFR 50 establish quality assurance program requirements for activities within their scope. Thus, this QATR is applied to the "important to safety" activities of radioactive waste shipping and independent spent fuel storage, as defined in those NRC regulations, as allowed by 10 CFR 71.101(f) and 10 CFR 72.140(d).

It is CGG's policy to assure a high degree of availability and reliability of its nuclear plants while ensuring the health and safety of the public and its workers. To this end, selected elements of the quality assurance program are also applied to certain equipment and activities that support safe and reliable plant operations, or where other non-CFR NRC guidance establishes program requirements. These include, but may not be limited to, emergency preparedness, security, radiation protection and fire protection. Implementing documents establish program element applicability.

Activities affecting quality are prescribed by and performed according to documents (such as instructions, procedures or drawings) of a type appropriate to the circumstances and which, where applicable, include quantitative or qualitative acceptance criteria. Such documents are prepared and controlled according to section B.14. In addition, means are provided for dissemination to plant staff of instructions of both general and continuing applicability (e.g., dealing with job turnover and relief, designation of confines of the control room, limitations on access to certain areas), as well as those of

short-term applicability (e.g., dealing with short-term operating conditions, publications, personnel actions). Provisions are included for review, updating, and cancellation of such instructions.

In establishing, implementing and maintaining the QATR, CGG commits to compliance with ASME NQA-1-1994, Basic Requirement 2. QATR revisions are reviewed by site and corporate management, and approved by the Chief Nuclear Officer. Changes to this QATR will be governed by and made in compliance with 10 CFR 50.54(a).

In establishing procedural controls, CGG commits to compliance with NQA-1, 1994, Basic Requirement 5. In addition, as stated in position C.1 of Regulatory Guide 1.33, Revision 2, CGG commits to use Appendix A of Regulatory Guide 1.33 as guidance for establishing the types of procedures that are necessary to control and support plant operation. Requirements specific to procedures are also provided in Appendix B of this QATR.

A.2 ORGANIZATION

This section describes the CGG organizational structure, functional responsibilities, and levels of authority and interfaces for establishing, executing, and verifying quality assurance program implementation. The organizational structure includes corporate functions and onsite functions at each plant. Corporate management is responsible for overall management of the Company's nuclear facilities through all the phases from siting to decommissioning. Support groups provide management, technical, and oversight support for activities such as design, construction, operation, modification, and decommissioning and report to corporate management. These support groups may be located at corporate offices or at a nuclear facility site. The onsite operations groups are responsible for overall operational activities of assigned nuclear facilities in accordance with the facility license. The operations groups are typically assigned responsibility for one or more nuclear power station units and any associated Independent Spent Fuel Storage Installations at a particular site. Decisions affecting safety are made at the level appropriate for its nature and effect and with any necessary technical advice for review. Implementing documents assign more specific responsibilities and duties, and define the organizational interfaces involved in conducting activities and duties within the scope of this QATR. As the amount of certain activities changes, such as construction or decommissioning, the organizational structure may change and will be reflected in a change to these descriptions.

A.2.1 CORPORATE ORGANIZATION

The following positions have the described corporate functional responsibilities (See Appendix E):

A.2.1.1 President, CGG

This position is responsible for overall corporate policy and provides executive direction and guidance for the corporation as well as promulgates corporate policy through the Company's senior management staff. Overall responsibility for the implementation of the quality assurance program is delegated to the Senior Vice President and Chief Nuclear Officer, CGG.

A.2.1.2 Senior Vice President and Chief Nuclear Officer, CGG (CNO)

This position reports to the President, CGG and has overall responsibility for the safe and reliable operation of the Company's nuclear stations including management oversight and support of the day-to-day operations of the stations. This is the senior executive responsible for setting and implementing policies, objectives, expectations, and priorities to ensure activities are performed in accordance with the quality assurance program and other requirements. The CNO oversees activities of the Nuclear Safety Review Board (NSRB).

A.2.1.3 Operations Support

An executive management position for operations support reports to the CNO and provides direction to the nuclear security, emergency preparedness, training, and fleet procedures departments. Responsibilities for nuclear security include facility physical security, nuclear access programs, and fitness for duty programs. Emergency preparedness responsibilities include development and maintenance of the company radiological emergency plans and coordination with off-site radiological emergency response groups for the nuclear facilities. Training ensures qualified personnel operate and support the nuclear facilities and administers the fleet corrective action, self-assessment, and industry operating experience programs. The fleet procedures department ensures that fleet procedures are prepared in accordance with applicable regulatory requirements, industry quality standards, and this QATR. Additionally, corporate oversight and support is provided in the areas of operations, maintenance, refueling services, radiation protection, chemistry, and work management. Some of these responsibilities may be assigned to Site Vice President(s) at the discretion of the CNO.

A.2.1.4 Technical Services

An executive management position for technical services reports to the CNO and provides direction to corporate engineering, licensing, nuclear fuel services, and probabilistic risk assessment (PRA) departments. Additionally, corporate oversight and support is provided for site engineering. This position is responsible for the engineering functions supporting design and construction activities and long-term nuclear operations, providing for regulatory compliance and licensing support through NRC communications, and activities related to safety and management of nuclear fuel. Some of these responsibilities may be assigned to the Site Vice President(s) at the discretion of the CNO.

A.2.1.5 Quality and Performance Assessment (Q&PA)

A senior management position reporting to the CNO is responsible for the verification of effective Company and Supplier quality assurance program development, documentation, and implementation. This position is independent of cost and scheduling concerns associated with construction, operations, maintenance, modification, and decommissioning activities for performing quality assurance program verification. Where implementation of any or all of these functions is delegated to Suppliers, procedures require the establishment of interface documents including defining lines of communication and authorities as appropriate for the delegated functions. However, this senior management position retains responsibility for the scope and effective implementation of the quality assurance program for those functions. This management position has the necessary authority and responsibility for verifying quality achievement; identifying quality problems, recommending solutions and verifying implementation of the solutions; and escalating quality problems to higher management levels. This position has the authority to suspend unsatisfactory work and control further processing or installation of non-conforming materials. The authority to stop work delegated to Q&PA personnel is delineated in procedures.

Q&PA is responsible for the evaluation of Suppliers' quality programs through a system of external audits, evaluations, and reviews of Supplier performance in accordance with quality assurance requirements. A list of approved Suppliers is maintained. Q&PA is responsible for assuring Company compliance with this QATR through administration of a comprehensive and systematic internal audit program. Q&PA is also responsible for the Employee Concerns Program, and developing and maintaining an appropriate quality verification inspection program where not provided for in the facility construction or operating organization functions.

A.2.1.6 Project Management

A senior management position reporting to the CNO is responsible for the implementation of large projects for the nuclear facilities. Implementation includes development of the detailed scope, estimate, schedule, cost, design procurement, construction, testing, and closeout of each project. Project management also oversees siting and construction activities. Focus is on defined projects separate from

ongoing routine engineering projects. Some of these responsibilities may be assigned to the Site Vice President(s) at the discretion of the CNO.

A.2.1.7 Supply Chain

Supply Chain is responsible for material management, purchasing, procurement engineering, and receipt inspection. This position has the authority to control further processing or installation of nonconforming materials. This authority is delegated to inspection personnel as delineated in procedures.

A.2.1.8 Information Technology

Information Technology is responsible for network infrastructure maintenance and upgrade, network and application security, network operations; automation strategy, application development and support, automation training; development and maintenance of the software control program; and oversight, maintenance, and repair of the Emergency Offsite Facility Computer System.

A.2.2 SITE ORGANIZATION

The overall structure of the organization described herein is applied for all facilities, however, there may be slight variations in responsibilities between facilities, but the overall reporting relationships remain. Depending on the scope of the activities, one or more individuals may be assigned the described management responsibilities. The on-site operating organization includes one or more individuals knowledgeable in the following fields: nuclear power plant operation; nuclear power plant mechanical, electrical and electronic systems; nuclear engineering; chemistry and radiochemistry; radiation protection; and quality assurance. Site procedures provide detailed organizational descriptions. The site organization is depicted in Appendix E.

A.2.2.1 Site Vice President (SVP)

This position reports to the CNO and is responsible for overall plant nuclear safety and implementation of the Company's quality assurance program. This position is responsible for the station's compliance with its NRC Operating License, governmental regulations, and ASME Code requirements. Areas of responsibility also include site engineering and training. This position provides day-to-day direction and management oversight of activities associated with the safe and reliable operations of a nuclear station.

A.2.2.2 Plant General Manager

This position reports to the SVP and is responsible for plant operations and maintenance. This position assures the safe, reliable, and efficient operation of the plant within the constraints of applicable regulatory requirements, Operating License, and the quality assurance program. The Plant General Manager, in carrying out the responsibility for overall safety of plant operations, is responsible for timely referral of appropriate plant matters to management and independent reviewers. Areas of responsibility also include chemistry activities, health physics/radiological protection, operations and support, work management, records management, maintenance and production planning, and related procedures and programs. The Plant Operating Review Committee (PORC) reports to the Plant General Manager.

A.2.2.3 Training

A site management position reports to the SVP and functionally to a corporate management position (offsite), and is responsible for the training of personnel who operate or support the nuclear facilities. Training responsibilities include determining the need for training based on information provided by the various groups, developing performance-based training programs, implementing training programs to support employee and facility needs, and evaluating training programs. Certain functional groups may be assigned responsibility for the development and conduct of their own training programs provided these groups are not required to have a systems approach to training under 10 CFR 50.120. This position is

also responsible for administration of the corrective action, self-assessment and industry operating experience programs.

A.2.2.4 Engineering

A site management position reports to the SVP and functionally to a Corporate Vice President (offsite), and is responsible for day-to-day engineering support activities including design engineering, engineering programs, equipment reliability, and system engineering.

A.2.2.5 Q&PA

A site management position reports to the corporate management position (offsite) responsible for Q&PA and functionally to the SVP, and is responsible for site Q&PA activities. Significant safety or quality issues requiring escalated action are directed through this position to corporate Q&PA management, as necessary. Responsibilities include conducting independent assessments of line and support activities; monitoring and assessing day-to-day station activities; stop work authority at the site; periodic reporting on the status and adequacy of the quality program; providing quality verification and inspections; and the Employee Concerns Program.

In establishing its organizational structure, CGG commits to compliance with NQA-1, 1994, Basic Requirement 1 and Supplement 1S-1.

A.3 RESPONSIBILITY

All employees of CGG involved in the operation of the fleet nuclear power plants and associated support activities have full personal and corporate responsibility to assure that the plant is operated, maintained, tested, inspected, and modified in a safe and reliable manner. This responsibility includes assuring that an effective quality assurance program is implemented. Although authority for development and execution of specified parts of the program may be delegated to others (e.g. suppliers), CGG retains overall responsibility.

The QA program status, scope, adequacy and compliance with 10 CFR Part 50 Appendix B are regularly reviewed by CGG management through reports, meetings, review of audit results, and documented assessments performed by management teams. The NSRB reviews the status and adequacy of the QA program at each site at least once every two years to assure that it is meaningful and effectively complies with corporate policy and 10 CFR Part 50, Appendix B. This review consists of an audit, or a review equivalent to an audit, performed by company personnel or outside organizations.

CGG is responsible for ensuring that the applicable portions of the QA program are properly documented, approved, and implemented (people are trained and resources are available) before an activity with the scope of the QA program is undertaken by CGG or by others. Individual managers ensure that personnel working under their cognizance are provided the necessary training and resources to accomplish their assigned tasks. Managers and supervisors are responsible for timely and continuing monitoring of performance to verify that day-to-day activities are conducted safely and in accordance with applicable requirements. The QA program is implemented through procedures prepared and maintained by the responsible organization and approved for use by their designated manager. Quality affecting activities are performed in accordance with these procedures, utilizing sufficiently trained personnel and necessary resources to accomplish the work.

Adherence to procedures is vital to the safe and reliable operation of CGG's Nuclear Power Plants. Personnel are responsible for adhering to established procedures, interpreting them conservatively in case of doubt, and recommending changes when necessary. Procedures with the potential to affect nuclear or personnel safety shall be strictly adhered to. When an activity controlled by such procedures cannot be accomplished as described or accomplishment of such activity would result in an undesirable situation,

the work shall be stopped and the plant placed in a safe condition. Work shall not resume until the procedure is changed to reflect correct work practices.

In addition, operating personnel responsibilities include:

1. The reactor operator's authority and responsibility for shutting down the reactor when it is determined that the safety of the reactor is in jeopardy or when operating parameters exceed any of the reactor protection system set-points and automatic shutdown does not occur.
2. The responsibility to determine the circumstances, analyze the cause, and determine that operations can proceed safely before the reactor is returned to power after a trip or an unexplained or unscheduled power reduction.
3. The senior reactor operator's responsibility to be present at the plant and to provide direction for returning the reactor to power following a trip or an unscheduled or unexplained power reduction.
4. The responsibility to believe and respond conservatively to instrument indications unless they are proved to be incorrect.
5. The responsibility to adhere to the plant's Technical Specifications.
6. The responsibility to review routine operating data to assure safe operation.
7. The responsibility to take action to minimize personnel injury or damage to the facility and to protect the health and safety of the public in the event of an emergency not covered by approved procedures.

In establishing quality assurance program responsibilities, CGG commits to compliance with NQA-1-1994, Basic Requirement 1 and Supplement 1S-1.

A.4 AUTHORITY

Persons or organizations who are delegated responsibility for planning, establishing, or implementing any part of the CGG quality assurance program also have the authority to carry out those responsibilities.

Nuclear operations and support organization personnel are empowered to take stop work action on their own activities if they determine that continuing the activity would preclude identifying and correcting a condition adverse to quality or lead to an unsafe condition. Designated independent inspection and audit personnel have the authority to stop work within nuclear operations and support organizations, and at supplier locations. The Plant General Managers have stop work authority for all activities performed in operating their respective stations, including the final responsibility for the overall evaluation of shutting down an operating unit.

In establishing quality assurance program authorities, CGG commits to compliance with NQA-1-1994, Basic Requirement 1 and Supplement 1S-1.

A.5 PERSONNEL TRAINING AND QUALIFICATION

Personnel assigned to implement elements of the QA program must be capable of performing their assigned tasks. To this end, CGG establishes and maintains formal indoctrination and training programs for personnel performing, verifying or managing activities within the scope of the QA program to assure that suitable proficiency is achieved and maintained. Generating site and support staff minimum qualification requirements are as delineated in each site's Technical Specifications. Other qualification requirements may be established but will not reduce those required by Technical Specifications. Sufficient managerial depth is provided to cover absences of incumbents. When required by code, regulation, or standard, specific qualification and selection of personnel is conducted in accordance with those requirements as established in the applicable CGG procedures. Indoctrination includes the administrative and technical objectives, requirements of the applicable codes and standards, and the QA program elements to be employed. Training for positions identified in 10 CFR 50.120 is accomplished according to programs accredited by the National Nuclear Accrediting Board of the National Academy of Nuclear Training that implement a systematic approach to training. Records of personnel training and qualification are maintained.

In establishing qualification and training programs, CGG commits to compliance with NQA-1-1994 Basic Requirement 2 and Supplements 2S-1, 2S-2, 2S-3 and 2S-4, with the following alternatives and exceptions:

1. For Supplement 2S-1: Inspections, examinations or tests may be performed by individuals in the same organization as that which performed the work, provided that (a) the qualifications of the inspector for an activity are the same as the minimum qualifications for persons performing the activity, (b) the work is within the skills of personnel and/or is addressed by procedures, and (c) if work involves breaching a pressure-retaining item, the quality of the work can be demonstrated through a functional test. When a, b and c are not met, inspections, examinations or tests are carried out by individuals certified in accordance with Supplement 2S-1. Individuals performing visual inspections required by the ASME Boiler and Pressure Vessel Code are qualified and certified according to Code requirements.
2. In lieu of being certified as Level I, II or III in accordance with Non-mandatory Appendix 2A-1 of NQA-1-1994, personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities, that are in the same organization as that which performed the work, will be required to possess the same minimum level of qualification as that required for performing the task being verified. The verification shall be within the skills of these personnel and/or is addressed by procedures. These individuals will not be responsible for the planning of quality verification inspections and tests (i.e. establishing hold points and acceptance criteria in procedures, or determining who will be responsible for performing the inspections), evaluating inspection training programs, or certifying inspection personnel.
3. In lieu of Supplement 2S-2, CGG will follow the applicable standard cited in the latest version(s) of Sections III and XI of the ASME Boiler and Pressure Vessel Code approved by the NRC for use at CGG sites for qualification of nondestructive examination personnel.
4. For Supplement 2S-3: The requirement that prospective Lead Auditors have participated in a minimum of five (5) audits in the previous three (3) years is replaced by the following, "The prospective lead auditor shall demonstrate his/her ability to properly implement the audit process according to section C.2 of this QATR, and to effectively organize and report results, including participation in at least one nuclear audit within the year preceding the date of qualification. Constellation Generation Group describes this process in written procedures and shall evaluate and document the results of the demonstration."

5. A grace period of 90 days may be applied to the performance of annual evaluations of inspection, examination and testing personnel qualifications defined in Supplement 2S-1, and annual lead auditor recertifications described in Supplement 2S-3. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

A.6 CORRECTIVE ACTION

CGG management, at all levels, fosters a non-punitive (“no-fault”) attitude toward the identification of conditions adverse to quality. This includes failures, malfunctions, deficiencies, deviations, defective material and equipment, abnormal occurrences, nonconformances, and out-of-control processes, including the failure to follow procedures.

CGG implements a corrective action program to promptly identify, control, document, classify, and correct conditions adverse to quality. In addition, for significant conditions adverse to quality, the program provides for cause evaluation and corrective actions to prevent recurrence. Provisions are also made to ensure that corrective actions for significant conditions adverse to quality are completed as intended. Results of evaluations of conditions adverse to quality are analyzed to identify trends. Significant conditions adverse to quality and significant adverse trends are documented and reported to responsible management.

Prior to installation, nonconforming items, services or activities are reviewed and accepted, rejected, repaired, or reworked, and are identified and controlled to prevent their inadvertent test, installation or use.

In establishing requirements for corrective action, CGG commits to compliance with NQA-1-1994, Basic Requirements 15 and 16, and Supplement 15S-1.

The Employee Concerns Program provides CGG and contractor employees an opportunity to communicate their quality concerns regarding operation, maintenance or modification while keeping their identity confidential, if they desire, and to receive feedback regarding the results of investigations with respect to their concerns. Quality concerns determined to be valid are acted upon by the responsible organization, and the actions are verified prior to closeout.

A.7 REGULATORY COMMITMENTS

A.7.1

Through the QATR, CGG commits to compliance with the following:

1. 10 CFR Part 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants"
2. 10 CFR Part 71, Subpart H, "Quality Assurance for Packaging and Transportation of Radioactive Material"
3. 10 CFR Part 72, Subpart G, "Quality Assurance for Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste,"
4. 10 CFR Part 21, "Reporting of Defects and Non-Compliance"
5. General Design Criterion 1, of Appendix A to 10 CFR Part 50
6. 10 CFR 50.55a, "Codes and standards"
7. 10 CFR 50.59, "Changes, Tests and Experiments"
8. 10 CFR 55, "Operators' Licenses"

A.7.2

When applicable, for Class 1, 2, and 3 items covered by Section III of the ASME Boiler and Pressure Vessel Code, the code Quality Assurance requirements are supplemented by the guidance of applicable regulatory guides and this QATR.

A.7.3

Through this QATR, CGG commits to compliance with the regulatory guidance and industry standards governing quality assurance as described below along with any exceptions or alternatives described within this QATR. Commitment to a particular Regulatory Guide does not constitute commitment to Regulatory Guides or other standards that may be referenced therein, unless otherwise noted.

1. Regulatory Guide 1.8, Revision (site-specific), "Qualification and Training of Personnel for Nuclear Power Plants" – CGG commitments regarding qualification and training of personnel are described in Section A.5 of this QATR, which states that staff qualification requirements are as delineated in each site's Technical Specifications, and that training for positions identified in 10CFR 50.120 is accomplished according to programs accredited by the National Nuclear Accrediting Board of the National Academy for Nuclear Training.
2. Regulatory Guide 1.16, Revision (site-specific), "Reporting of Operating Information" – The commitment to this Regulatory Guide is site-specific as described in the approved Safety Analysis Report (SAR) or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
3. Safety/Regulatory Guide 1.26, Revision (site-specific), "Quality Group Classifications and Standards for Water-, Steam-, and Radioactive Waste-Containing Components of Nuclear Power Plants" – Commitment to Safety/Regulatory Guide 1.26 is site-specific, as required by the approved SAR/License at each nuclear facility. Sites may use this guidance to assist in establishing the lists of equipment to which this QA program applies, or for other purposes.
4. Regulatory Guide 1.28, Revision 3, August 1985, "Quality Assurance Program Requirements (Design and Construction)" (ASME NQA-1, 1983a) – CGG will implement the requirements and guidance of the standard and Regulatory Guide during the design and construction phases of the facilities subject to the following:
 - a. Regulatory Position C endorses the basic and supplementary requirements of ANSI/ASME NQA-1-1983 and the ANSI/ASME NQA-1a-1983 Addenda. In place of the specific edition and addenda of NQA-1 addressed in the Regulatory Guide, CGG

commits to implement the requirements of NQA-1-1994 Part I. CGG's commitment to these requirements and any exceptions/alternatives to these requirements are addressed in this QATR.

- b. CGG uses the list of records in position C.2 (Table 1) to establish the types of records that will be created and retained in support of plant operation. Table 1 addresses design, construction and initial start-up records and will be applied to operating and decommissioning phase records that are similar in nature to the construction records. Additional operations phase records and their retention periods are identified in Appendix D to this QATR.
- c. The guidance in Regulatory Position C.3.2 regarding external audits will also be implemented during the operational phase. CGG complies with Regulatory Position C.3.2 with the exception that for Regulatory Position C.3.2.2, CGG may review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). Additionally, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action. If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes. Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

A grace period of 90 days may be applied to the performance of triennial supplier audits described in Regulatory Position C.3.2.1. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

- 5. Safety/Regulatory Guide 1.29, Revision (site-specific) "Seismic Design Classification" – CGG plants may have been designed, constructed and licensed based on criteria available prior to this Regulatory Guide being issued. The specific design criteria and seismic designations are reflected in each plant's SAR, and in other docketed analysis. Thus, the commitment to Safety/Regulatory Guide 1.29 is site-specific, as required by the approved SAR/License at each CGG site. Sites may use this guidance to assist in establishing the lists of equipment to which this QA program applies, or for other purposes.
- 6. Regulatory Guide 1.30, August 1972, "Quality Assurance Requirements for the Installation, Inspection and Testing of Instrumentation and Electric Equipment," (ANSI N45.2.4-1972/IEEE 336-1971):
 - a. CGG commits to ANSI N45.2.4-1972/IEEE 336-1971 in its commitment to Position C of Regulatory Guide 1.30.
 - b. As noted in Regulatory Position C.1, ANSI N45.2.4-1972 is being used in conjunction with NQA-1-1994, Part I, which replaced ANSI N45.2.
 - c. As noted in Regulatory Position C.2, other industry standards may be referenced. The commitment in this QATR to ANSI N45.2.4-1972 includes commitment to those standards to the extent necessary to implement ANSI N45.2.4-1972 requirements. If NRC guidance applies to those referenced standards, it is followed.
 - d. Consistent with Regulatory Position C.3, the requirements of the endorsed standard are also considered applicable during the operation phase of the nuclear power plant.
 - e. In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant

instrumentation that contain the date of calibration and identity of person that performed the calibration. Calibrations of instruments are scheduled and tracked by a computer database.

7. Regulatory Guide 1.33, Revision 2, February 1978, "Quality Assurance Program Requirements (Operation)" (ANSI N18.7-1976/ANS-3.2):
 - a. NQA-1-1994 Part I contains quality assurance requirements equivalent to those of ANSI N18.7-1976/ANS-3.2, and CGG has included in this QATR the remaining "administrative controls" elements from ANSI N18.7-1976/ANS-3.2. Therefore, CGG does not commit to compliance with the requirements of ANSI N-18.7-1976/ANS-3.2.
 - b. As recommended by Regulatory Position C.1, CGG uses Appendix A of Regulatory Guide 1.33, Revision 2, as guidance in establishing the types of procedures required for plant operation and support.
 - c. CGG's commitment to the applicable Regulatory Guides and associated standards listed in Regulatory Position C.2 is addressed within this QATR. A number of these Regulatory Guides and standards have been incorporated into NQA-1-1994 Part I.
 - d. CGG complies with Regulatory Position C.3, as described in Appendix A of this QATR.
 - e. In lieu of the six and twelve month audit frequencies specified in Regulatory Position C.4, CGG audits selected aspects of operational phase activities at a frequency commensurate with their safety significance in such a manner as to assure an audit of all safety-related functions is completed within a period of two years. (except as otherwise required in regulations). Constellation Generation Group's audit program includes the elements listed in Regulatory Position C.4. A 90-day grace period may be applied to the 24-month frequency for performing internal audits. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.
 - f. In lieu of compliance with Regulatory Position C.5, CGG has established appropriate equivalent requirements within this QATR.
8. Regulatory Guide 1.36, Revision (site-specific), "Nonmetallic Thermal Insulation for Austenitic Stainless Steel" – CGG plants may have been designed, constructed and licensed based on criteria available prior to this Regulatory Guide being issued. Regulatory Guide 1.36 may be used for plant modifications on a case-by-case basis, but this QATR makes no generic commitment thereto.
9. Regulatory Guide 1.37, Revision (site-specific), "Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants," (ANSI N45.2.1-1973) – The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
10. Regulatory Guide 1.38, Revision (site-specific), "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants," (ANSI N45.2.2-1972) – The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.

This alternative applies to Nine Mile Point Nuclear Station (NMPNS). NMPNS commits to ANSI/ASME NQA-2-1983 Part 2.2, "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants," for nuclear safety-related activities pertaining directly to permanent plant modifications only. NQA-2-1983 Section 7.1 refers to NQA-2-1983 Part 2.15 for requirements related to handling of items. The scope of Part 2.15 includes hoisting, rigging and transporting of items for nuclear power plants. This scope exceeds the scope of the NRC's original endorsement of ANSI N45.2.2 in Regulatory Guide 1.38, and establishes requirements for which there is no NRC regulatory position. In lieu of

compliance with Part 2.15, NMPNS is committed to the requirements of applicable heavy load reports for Nine Mile Point Units 1 and 2 that have been approved by the NRC. Unit 2's report is a part of the SAR (Appendix 9C). Unit 1's is a separate report.

11. Regulatory Guide 1.39, Revision 2, September 1977, "Housekeeping Requirements for Water-Cooled Nuclear Power Plants," (ANSI N45.2.3-1973) – CGG substitutes NQA-1-1994, Subpart 2.3 for N45.2.3 in its commitment to Regulatory Guide 1.39. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.3 includes commitment to those standards to the extent necessary to implement Subpart 2.3 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the provisions of section 3.2.3 of N45.2.3 are not part of the regulatory endorsement. As NQA-1, Subpart 2.3, section 3.2.3 has the same wording as N45.2.3; the Regulatory Position is applicable and will be followed in CGG's implementation of Subpart 2.3. Regulatory Position C.3 indicates that the endorsed standard is "applicable for housekeeping activities during the operations phase that are comparable to those occurring during construction." This is addressed in section B.7 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.3.
12. Regulatory Guide 1.54, Revision (site-specific), "Quality Assurance for Protective Coatings Applied to Nuclear Power Plants" (N101.4-1972) - The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
13. Regulatory Guide 1.68, Revision (site-specific), "Preoperational and Initial Startup Test Programs for Water-Cooled Power Reactors," - The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
14. Regulatory Guide 1.94, Revision (site-specific), "Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete and Structural Steel During the Construction Phase of Nuclear Power Plants," (ANSI N45.2.5-1974) – CGG plants may have been designed, constructed and licensed based on criteria available prior to this Regulatory Guide being issued. The specific installation, inspection, and testing criteria are reflected in each plant's SAR, and in other docketed analysis. Thus, the commitment to Regulatory Guide 1.94 is site-specific, as required by the approved SAR/License at each CGG site. Sites may use this guidance to assist in establishing the equipment to which this QA program applies, or for other purposes.
15. Regulatory Guide 1.116, Revision 0-R, May 1977, "Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems," (ANSI N45.2.8-1975) – CGG substitutes NQA-1-1994, Subpart 2.8 for N45.2.8 in its commitment to Regulatory Guide 1.116. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.8 includes commitment to those standards to the extent necessary to implement Subpart 2.8 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the endorsed standard should be "followed for those applicable operations phase activities that are comparable to activities occurring during the construction phase." This is addressed in section B.12 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.8.
16. Regulatory Guide 1.143, Revision (site-specific), "Design Guidance for Radioactive Waste Management Systems, Structures and Components Installed in Light-water-Cooled Nuclear Power Plants" Commitment to Regulatory Guide 1.143 is site-specific, as required by the approved SAR at each CGG site. Sites may use this guidance to assist in establishing the lists of equipment to which this QA program applies, or for other purposes.
17. Regulatory Guide 1.152, Revision 0, November 1985, "Criteria for Programmable Digital Computer System Software in Safety-Related Systems of Nuclear Power Plants" - CGG does not

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- make a commitment to Regulatory Guide 1.152. CGG commits to Generic Letter 95-02, and its endorsement of NUMARC/EPRI Report TR-102348, "Guidelines on Licensing Digital Upgrades."
18. Generic Letter 89-02/EPRI-NP-5652 (June 1988) – CGG commits to compliance with the endorsed industry guidance regarding selection and qualification of commercial grade suppliers and dedication of commercial grade items for use in safety related applications.
 19. Branch Technical Position CMEB 9.5-1, Revision 2, July 1981 (Positions C.2 and C.4) – None of the current CGG plants are committed to CMEB 9.5-1. CGG plants are committed to the guidance in Appendix A to Branch Technical Position APCSB 9.5-1, "Guidelines for Fire Protection for Nuclear Power Plants Docketed Prior to July 1, 1976." However, application of the requirements is site-specific as described in the applicable facility SAR, Fire Protection Program, and License documents.
 20. Regulatory Guide 4.15, Revision 1, February 1979, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) – Effluent Streams and the Environment" – CGG commits to compliance with the Regulatory Positions of Section C with the following alternatives/exceptions:
 - a. In lieu of plotting background parameters and setting predetermined control values for gamma spectroscopy instrumentation as described in Regulatory Position C.6.2, background results may be logged and evaluated to ensure the background does not bias reported results.
 - b. The NRC's independent sampling and analysis program described in Regulatory Position C.6.3.2 may not be performed.
 - c. In lieu of performing source check calibrations at least once per 18 months as described in Regulatory Position C.7, CGG may perform these calibrations at least once per refueling interval.
 21. Regulatory Guide 7.10, Revision 1, June 1986, "Establishing Quality Assurance Programs for Packaging Used in the Transport of Radioactive Material" – CGG commits to implement the quality assurance guidance for activities related to the packaging and transport of radioactive material that are under its control. Quality Assurance for the design, fabrication and licensing of shipping containers is the responsibility of the container certificate holders.
 22. Regulatory Issue Summary 2000-18, October 2000, "Guidance on Managing Quality Assurance Records in Electronic Media" – Should CGG choose electronic media storage as a means of maintaining required records, CGG will comply with the guidance of this Regulatory Issue Summary.
 23. Generic Letter 82-21, "Technical Specification for Fire Protection Audits." In lieu of the 12-month, 24-month, and 36-month fire protection and loss prevention audits, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures. The biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant.
 24. Generic Letter 91-05 (April 1991) – CGG commits to compliance with the guidance regarding licensee commercial-grade procurement and dedication programs.
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B. PERFORMANCE VERIFICATION**B.1 METHODOLOGY**

Personnel who work directly or indirectly for CGG are responsible for the achievement of acceptable quality in the work covered by this QATR. This includes design, engineering, procurement, manufacturing, construction, installation, start-up, maintenance, modifications, operations, and decommissioning. CGG personnel performing verification activities are responsible for verifying the achievement of acceptable quality. Activities governed by the QA program are performed as directed by documented instructions, procedures and drawings that are of a detail appropriate for the activity's complexity and effect on safety. Instructions, procedures and drawings specify quantitative or qualitative acceptance criteria as applicable or appropriate for the activity, and verification is against these criteria. Provisions are established to designate or identify the proper documents to be used in an activity, and to ascertain that such documents are being used.

B.2 DESIGN CONTROL

Station modifications are accomplished in accordance with approved designs and procedures. The controls apply to preparation, review and revision of design documents, including the correct translation of applicable regulatory requirements and design bases into design, procurement and procedural documents. Configuration changes, including temporary changes, are implemented utilizing design control measures at least commensurate with those applied to the original design. Changes to design output documents, including field changes, are controlled in a manner commensurate with that used for the original design. Information on approved changes is transmitted to affected organizations. In addition, temporary design changes (temporary modifications), such as temporary bypass lines, electrical jumpers and lifted leads, and temporary trip-point settings, are controlled by procedures that include requirements for appropriate installation and removal verifications and status tracking.

Engineering has overall control of design documents. Design output documents, and revisions thereto, are controlled by the design office (architect-engineer, supplier, contractor, consultant or engineering) responsible for the design work. Each design organization controls design documents in accordance with approved procedures that provide for development, review, approval, distribution, document control and revision. Design control measures are defined and implemented by trained and qualified personnel through approved procedures and instructions. These procedures and instructions assure that:

1. Design inputs are appropriately specified on a timely basis and correctly translated into design documents.
2. Design interfaces are identified and controlled.
3. The design is suitable for its intended application.
4. Personnel other than those who performed the design verify design adequacy.
5. Design changes, including field changes, are governed by control measures.
6. Deviations and nonconformances are controlled.
7. Design records are identified, controlled, and retrievable.

Design inputs (such as design bases, performance requirements, regulatory requirements, codes, and standards) and changes to design inputs are identified, documented, reviewed and approved, and controlled. Design documents, including drawings and specifications, are prepared and technically reviewed by qualified personnel. The technical reviewer ensures that the design document is in accordance with the design concept, incorporates appropriate design inputs, and conforms to approved procedures and instructions. Appropriate management or supervision approves design change packages prior to release for implementation. Design interfaces, both internal and external, are formally identified, and design activities are coordinated among the participating organizations to ensure that design inputs

and outputs are properly developed, reviewed, approved, and distributed. Multi-discipline changes are reviewed to ensure integration of design outputs.

Design databases, documents, and procedures are revised to reflect changes installed in the plant. Design records are identified, indexed, and controlled to allow for retrievability of design basis information and to provide evidence of appropriate design controls.

In establishing its program for design control, CGG commits to compliance with NQA-1, 1994, Basic Requirement 3, and Supplement 3S-1, Sections 1, 2, 3, 5, 6, and 7.

B.3 DESIGN VERIFICATION

Design verification is the process of reviewing, confirming, or substantiating the design to assure the acceptability of the design inputs; adherence to the design process; that design inputs are reflected in the design outputs; and that design changes are implemented under controls commensurate with those applied to the initial design. The extent of and methods used for design verification are documented. Methods for design verification include evaluation of the applicability of standardized or previously proven designs, alternate calculations, qualification testing and design reviews. These methods may be used singly or in combination, depending on the needs for the design under consideration. When design verification is done by evaluating standardized or previously proven designs, the applicability of such designs is confirmed. Any differences from the proven design are documented and evaluated for the intended application.

Design reviews are performed by individuals, or by interdisciplinary or multi-organizational groups, as appropriate. Unless otherwise stated, the verification of design addresses the information conveyed by the design document. When the verification is limited to certain areas or features, the scope or extent and any limitations on the verification are documented.

Qualification testing of prototypes, components, or features is used when the ability of an item to perform an essential safety function cannot otherwise be adequately substantiated. This testing is performed before Station equipment installation where possible, but always before reliance upon the item to perform a safety-related function. Qualification testing is performed under conditions that simulate the most adverse design conditions as determined by analysis, considering relevant operating modes. Test requirements, procedures and results are documented. Results are evaluated to assure that test requirements have been satisfied. Modifications are made if shown to be necessary through testing. Following modification, any necessary retesting or other verification is performed. Scaling laws are established and verified when applicable. Test configurations are documented.

Persons representing applicable technical disciplines are assigned to perform design verifications. These persons are qualified by appropriate education or experience and are not directly responsible for the design being verified. The originator's supervisor may perform this verification, provided (1) the supervisor did not specify a singular design approach or rule out certain design considerations, and did not establish the design inputs used in the design; or (2) the supervisor is the only individual in the organization competent to perform the verification, and receives written approval by the appropriate engineering manager.

When designs must be released for use before they have been completed or before they have been verified, the incomplete or unverified parts of the design and the hold point to which work may proceed are identified, and design output documents based on unverified data are identified and controlled. This hold point occurs before the work becomes irreversible or before the item is relied on to perform a safety-related function. Justification for such early release is documented.

Procedures define acceptable verification methods and controls, design parameters subject to verification, acceptance criteria, and verification documentation and records requirements.

In establishing its program for design verification, CGG commits to compliance with NQA-1, 1994, Basic Requirement 3, and Supplement 3S-1, Section 4.

B.4 PROCUREMENT CONTROL

Procurement documents define the characteristics of items or services to be procured, identify applicable regulatory and industry codes or standards requirements, and specify supplier QA program requirements to the extent necessary to assure adequate quality.

Prospective suppliers of safety-related items and services are evaluated to assure that only qualified suppliers are used. Qualified suppliers are periodically evaluated to assure they continue to provide acceptable products and services. Industry programs, such as those applied by ASME, NUPIC, or other established utility groups, are used as input or the basis for supplier qualification whenever appropriate. In addition, CGG commits to Position C.3.2 of Regulatory Guide 1.28, Revision 3, for auditing and evaluation of suppliers, with the exception that for position C.3.2.2, CGG will review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). In addition, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action. A grace period of 90 days may be applied to the performance of triennial supplier audits described in Regulatory Guide 1.28, Revision 3, Regulatory Position 3.2.1. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early. CGG considers that other 10 CFR 50 licensees, Authorized Nuclear Inspection Agencies, National Institute of Standards and Technology, or other State and Federal agencies which may provide items or services to CGG plants are not required to be evaluated or audited.

Procurement of safety-related items and services from suppliers is permitted when CGG has performed a documented evaluation of their capability to provide the items or services specified by procurement documents. However, such evaluation for items or services specified may not necessarily result in the supplier being placed on the Approved Vendors List (AVL). In instances where an identified supplier is the only practical source, procurement may be authorized subject to satisfactory surveillance of the processes and characteristics identified in items (1.) and (2.) below:

1. The supplier is capable of meeting specific procurement document requirements by virtue of their ability to control critical manufacturing and functional processes and characteristics identified by engineering; and
2. Methods have been identified and documented which will verify conformance to these requirements.

When required by operational considerations, an order may be placed with a supplier prior to completion of the evaluation and approval process only after obtaining approval from the nuclear site individual responsible for the procurement function. CGG's acceptance of basic component items or services provided by an unapproved supplier is contingent on the subsequent Q&PA evaluation and approval of the supplier as stated above.

Procurement planning by procuring organizations consists of determining the supplier of choice, methods to be used for acceptance of the item or service, and provisions for ensuring that qualified suppliers continue to provide acceptable products and services. Source inspection (surveillance), certificate of conformance, receipt inspection, and pre- or post-installation testing are methods that are considered for item acceptance. The extent of the acceptance methods and associated verification activities will vary

depending upon the relative importance and complexity of the purchased item or service and the supplier's past performance.

The contents of procurement documents vary according to the item and/or service being purchased and its function in the plant. Procurement documents include the following, as applicable:

1. Material description and/or scope of work to be performed.
2. Technical requirements with reference to applicable drawings, specifications, codes and standards identified by title, document number, revision and date. Any required procedures, such as special process instructions, are identified in such a way as to indicate source and need.
3. Regulatory, administrative and reporting requirements. This includes 10 CFR 21 requirements, specifications, codes, standards, tests, inspections, and special processes. (The QA programmatic requirements of ASME NQA-1 or ANSI N45.2 may be used, where appropriate.)
4. A requirement for a documented QA program.
5. A requirement for the supplier to invoke applicable quality requirements on subtier suppliers.
6. Provisions for access to supplier and subtier suppliers' facilities and records for inspections, surveillances and audits.
7. Identification of documentation to be provided by the supplier.
8. Provisions for documentation and dispositioning of nonconformances.

Spare and replacement parts are procured in accordance with the following provisions to assure that their performance and quality are at least equivalent to those of the parts that will be replaced:

1. Specifications and codes referenced in procurement documents for spare or replacement items are the same or equivalent to those for the original items or to the reviewed and approved revisions;
2. Where quality requirements for the original items cannot be determined, requirements and controls are established by an engineering evaluation; and
3. Any additional or modified design criteria imposed after previous procurement of the item(s), are identified and incorporated.

Appropriate controls are imposed for the selection, determination of suitability for intended use (critical characteristics), evaluation, receipt, and quality evaluation of commercial grade items or services to ensure that they will perform satisfactorily in service.

In establishing controls for procurement, CGG commits to compliance with NQA-1, 1994, Basic Requirements 4 and 7, and Supplements 4S-1 and 7S-1, with the following exceptions:

1. For Supplement 4S-1, Section 2.3, which requires procurement documents to require a quality program that complies with NQA-1, CGG may accept vendors implementing another NRC endorsed standard that has shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50.
2. For NQA-1-1994 Supplement 4S-1 and Supplement 7S-1, CGG will use the guidance contained in Generic Letters 91-05 and 89-02/EPRI NP-5652 to procure commercial grade items in lieu of these requirements.
3. For Supplement 7S-1, Section 8.1, documentary evidence that items conform to procurement requirements need not be available at the site prior to item installation, but will be available at the site prior to placing reliance on the item for its intended safety function.
4. Supplement 7S-1 Paragraph 8.2.4 states "...post-installation test requirements and acceptance documentation shall be mutually established by the Purchaser and Supplier." In exercising ultimate responsibility for its QA Program, CGG establishes post-installation test requirements, giving due consideration to supplier recommendations.

B.5 PROCUREMENT VERIFICATION

CGG establishes and implements measures to verify the quality of purchased items and services, whether purchased directly or through contractors, at intervals and to a depth consistent with the item's or service's importance to safety, complexity, quantity and the frequency of procurement. Verification actions include testing, as appropriate, during design, fabrication and construction activities associated with plant maintenance or modifications. Verifications occur at the appropriate phases of the procurement process, including, as necessary, verification of activities of suppliers below the first tier. When suppliers perform work under their own QA programs, those programs are reviewed for compliance with the applicable requirements of 10 CFR Part 50 Appendix B and the contract.

In establishing procurement verification controls, CGG commits to compliance with NQA-1, 1994, Basic Requirement 7 and Supplement 7S-1.

B.6 IDENTIFICATION AND CONTROL OF ITEMS

CGG establishes and implements provisions for the identification and control of items to prevent the use of incorrect or defective items. This includes controls for consumable materials and items with limited shelf life. The identification of items is maintained throughout fabrication, erection, installation and use so that the item can be traced to its documentation, consistent with the item's effect on safety. Marking locations and methods are selected so as not to affect the function or quality of the item.

In establishing provisions for identification and control of items, CGG commits to compliance with NQA-1-1994, Basic Requirement 8 and Supplement 8S-1.

B.7 HANDLING, STORAGE, AND SHIPPING

CGG establishes and implements provisions to control the handling, storage, shipping, cleaning and preservation of items to prevent inadvertent damage, loss or deterioration. These provisions include specific procedures, when required to maintain acceptable quality, for cleaning, handling, storage, packaging, shipping and preserving items important to safety. Items are appropriately marked and labeled during packaging, shipping, handling and storage to identify, maintain and preserve the item's integrity and indicate the need for special controls. Special controls (such as containers, shock absorbers, accelerometers, inert gas atmospheres, specific moisture content levels and temperature levels) are provided when required to maintain acceptable quality.

In establishing provisions for handling, storage and shipping, CGG commits to compliance with NQA-1-1994, Basic Requirement 13 and Supplement 13S-1. CGG sites also commit to items 1 or 2 below:

1. Regulatory Guide 1.38, Revision (site-specific), "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants," (ANSI N45.2.2-1972) – The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.
2. This alternative applies to Nine Mile Point Nuclear Station (NMPNS). NMPNS commits to ANSI/ASME NQA-2-1983 Part 2.2, "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants," for nuclear safety-related activities pertaining directly to permanent plant modifications only. NQA-2-1983 Section 7.1 refers to NQA-2-1983 Part 2.15 for requirements related to handling of items. The scope of Part 2.15 includes hoisting, rigging and transporting of items for nuclear power plants. This scope exceeds the scope of the NRC's original endorsement of ANSI N45.2.2 in Regulatory Guide

1.38, and establishes requirements for which there is no NRC regulatory position. In lieu of compliance with Part 2.15, NMPNS is committed to the requirements of applicable heavy load reports for Nine Mile Point Units 1 and 2 that have been approved by the NRC. Unit 2's report is a part of the SAR (Appendix 9C). Unit 1's is a separate report.

Housekeeping practices during normal operations and maintenance activities, including refueling, are established to account for the control of radiation zones and other conditions or environments that could affect the quality of structures, systems and components within the plant. This includes control of cleanliness of facilities and materials, fire prevention and protection, disposal of combustible material and debris, control of access to work areas, protection of equipment, radioactive contamination control and storage of solid radioactive waste. Housekeeping practices assure that only proper materials, equipment, processes and procedures are used and that the quality of items is not degraded as a result. Necessary procedures or work instructions, such as for electrical bus and control center cleaning, cleaning of control consoles, and radioactive decontamination are developed and used.

In addition, CGG commits to compliance with the requirements of NQA-1-1994, Subpart 2.3, to establish appropriate provisions for housekeeping; with the following exception:

1. In lieu of the five-level zone designation in Subpart 2.3, CGG may base its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are effected through procedures or instructions. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible.

CGG establishes appropriate cleanliness controls for work on safety related equipment to minimize introduction of foreign material and maintain system/component cleanliness throughout maintenance or modification activities, including documented verification of absence of foreign materials prior to system closure. In addition, CGG commits to compliance with the requirements of Regulatory Guide 1.37, March 1973, "Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants," (ANSI N45.2.1-1973) – The commitment to this Regulatory Guide is site-specific as described in the approved SAR or License for each nuclear facility. Where items do not conform to the requirements of the Regulatory Guide, they are addressed in the applicable facility's SAR.

B.8 TEST CONTROL

CGG establishes and implements testing programs to demonstrate that items subject to the provisions of this QATR will perform satisfactorily in service, that the plant can be operated safely and as designed, and that the coordinated operation of the plant as whole is satisfactory. This testing involves the operation of all items in a system or partial system to assure that operation is in accordance with the design criteria and functional requirements. These programs include criteria for determining when testing is required, such as proof tests before installation, pre-operational tests, post-maintenance tests, post-modification tests, inservice tests, and operational tests (such as surveillance tests required by Plant Technical Specifications), to demonstrate that performance of plant systems is in accordance with design intent. Programs also include provisions for establishing and adjusting test schedules and maintaining status for periodic or recurring tests. Tests are performed according to applicable procedures that include, consistent with the effect on safety, (1) instructions and prerequisites to perform the test, (2) use of proper test equipment, (3) acceptance criteria, and (4) mandatory verification points as necessary to confirm satisfactory test completion. Test results are documented and evaluated by the organization performing the test and reviewed by the appropriate authority having responsibility for the item being tested. If acceptance criteria are not met, retesting is performed as needed to confirm acceptability following correction of the system or equipment deficiencies that caused the failure.

In establishing provisions for testing, CGG commits to compliance with NQA-1, 1994, Basic Requirement 11 and Supplement 11S-1.

B.9 MEASURING AND TEST EQUIPMENT CONTROL

CGG establishes and implements provisions to control the calibration, maintenance, and use of measuring and test equipment. The provisions cover equipment such as instruments and gages, tools, reference and transfer standards, and nondestructive examination equipment. The provisions assure that:

1. Measuring and test equipment is calibrated at specified intervals on the basis of the item's required accuracy, intended use, frequency of use, and stability characteristics or other conditions affecting its performance. Alternatively, equipment may be calibrated immediately before and after use if a defined interval is not appropriate.
2. Measuring and test equipment is labeled, tagged or otherwise controlled to indicate its calibration status and provide traceability to calibration test data or records.
3. Calibrations are performed against standards that have an accuracy of at least four times the required accuracy of the equipment being calibrated. When this is not possible, an evaluation of the uncertainty is performed to ensure the equipment being calibrated will be within the required tolerance.
4. Where possible, calibration standards are traceable to appropriate national standards. Calibration standards have greater accuracy than the standards being calibrated, except where the same accuracy as the instruments being calibrated can be shown to be adequate for the service requirements.
5. Measuring and test equipment found out of calibration is tagged or segregated and not used until it is successfully re-calibrated. An evaluation is performed to determine the acceptability of any items measured, inspected or tested with an out-of-calibration device from the time of the previous calibration.

In establishing provisions for control of measuring and test equipment, CGG commits to compliance with NQA-1, 1994, Basic Requirement 12, Supplement 12S-1.

B.10 INSPECTION, TEST, AND OPERATING STATUS

CGG establishes and implements measures to identify the inspection, test and operating status of items and components subject to the provisions of this QATR in order to maintain personnel and reactor safety and avoid unauthorized operation of equipment. Procedures require control measures such as locking, tagging, marking, logging or other suitable means to secure and identify equipment in a controlled status. Where necessary to preclude inadvertent bypassing of inspections or tests, or to preclude inadvertent operation, these measures require the inspection, test or operating status be verified before release, fabrication, receipt, installation, test or use. Authority for the application and removal of status indicators or labels is controlled by procedures.

In establishing measures for control of inspection, test and operating status, CGG commits to compliance with NQA-1, 1994, Basic Requirement 14.

B.11 SPECIAL PROCESS CONTROL

CGG establishes and implements provisions to assure that special processes that require interim process controls to assure quality, such as welding, heat treating, chemical cleaning, and nondestructive examination, are controlled. These provisions include assuring that special processes are accomplished by qualified personnel using qualified procedures and equipment. Special processes are performed in accordance with applicable codes, standards, specifications, criteria or other specially established requirements. Special processes are those where the results are highly dependent on the control of the process or the skill of the operator, or both, and for which the specified quality cannot be fully and readily determined by inspection or test of the final product.

In establishing measures for the control of special processes, CGG commits to compliance with NQA-1, 1994, Basic Requirement 9 and Supplement 9S-1, as well as the applicable ASME Boiler and Pressure Vessel Code provisions established via 10 CFR 50.55a.

B.12 INSPECTION

CGG establishes and implements provisions for inspections to assure that items, services and activities affecting safety meet established requirements and conform to applicable documented instructions, procedures and drawings. Inspection may also be applied to items, services and activities affecting plant reliability. Types of inspections may include those verifications related to procurement, as discussed in Sections B.4 and B.5, such as source, in-process, final, and receipt inspection, as well as maintenance, modification, in-service, and operational activities. Inspections are carried out by properly qualified persons independent of those who performed or directly supervised the work.

Inspection planning (for those activities subject to inspection) identifies the characteristics and activities to be inspected, the inspection techniques, the acceptance criteria and the organization responsible for performing the inspection. Inspection planning identifies required hold points, beyond which work is not to proceed without the consent of the inspection organization. Provisions for ASME Boiler and Pressure Vessel Code Authorized Inspections are included when required.

Inspection results are documented by the inspector and approved by authorized personnel. If acceptance criteria are not met, corrected areas are reinspected.

In establishing inspection requirements, CGG commits to compliance with NQA-1-1994, Basic Requirement 10, Supplement 10S-1. In addition, for situations comparable to original construction, CGG commits to compliance with the requirements of Subpart 2.8 for establishing appropriate inspection requirements.

B.13 CORRECTIVE ACTION

CGG establishes and implements provisions to assure that personnel have both the responsibility and authority to identify conditions adverse to quality, and the opportunity to suggest, recommend or provide solutions to resolve the condition. Provisions also include verification of resolution of significant issues (see also section A.6). Reworked, repaired and replacement items are inspected and tested to meet the original inspection or test requirements, or appropriately specified alternatives (see also sections B.8 and B.12).

If evidence indicates that common components in safety related systems have performed unsatisfactorily, compensatory or corrective measures are planned prior to replacement or repair of such components. Replacement components receive adequate testing or are of a design for which experience indicates a

high probability of satisfactory performance. Consideration is given to phased replacement to permit inservice performance to be evaluated and minimize the possibility of systemic failure.

Issues are periodically analyzed for the identification of adverse quality trends. The existence of an adverse quality trend is resolved in accordance with this section. A trend report is issued to management at intervals specified in approved procedures.

Nonconforming items may be conditionally released for installation, test, energization, pressurization, or use if the conditional release will not adversely affect nor preclude identification and correction of the nonconformance. Dispositions of conditionally released items are resolved before the items are relied upon to perform their safety-related functions. Conditional release evaluations are documented, reviewed, and approved prior to implementation.

In establishing provisions for corrective action and control of non-conforming items, CGG commits to compliance with NQA-1, 1994, Basic Requirements 15 and 16, and Supplement 15S-1.

B.14 DOCUMENT CONTROL

CGG establishes and implements provisions to specify the format and content (see Appendix B for procedures), and control the development, review, approval, issue, use and revision, of documents that specify quality requirements or prescribe activities affecting quality or safe operation to assure the correct documents are being employed. These provisions assure that specified documents are reviewed for adequacy, approved prior to use by authorized persons, and distributed according to current distribution lists and used at the location where the prescribed activity takes place. Procedures governing generating site activities (see Appendix B) are reviewed by qualified persons, other than the originator or preparer. Such procedure review includes determination whether additional cross-discipline reviews are required. Provisions include establishing levels of use, such as requiring the document to be present at the work location. Documents subject to control provisions include, but are not limited to, drawings (design, as-built), engineering documents (calculations, analyses, specifications, computer codes, Safety Analysis Reports, facility Technical Specifications), and procedures (administrative, operating, emergency operating, maintenance, calibration, surveillance, inspection, test). Other documents, such as those related to procurement, corrective actions, and assessments, are controlled as defined by the provisions and commitments cited in those sections of this QATR. Controlled copies of instructions and procedures are made available to and used by the persons performing the activity covered. New or revised controlled documents are made available in a timely fashion to support ongoing work and preclude use of incorrect information. Superseded documents are identified or removed from availability. Each site maintains documentation that describes how implementing documents are maintained to assure that quality assurance program requirements are met and are not inadvertently removed in later revisions.

Revisions to controlled documents are reviewed for adequacy and approved for release by the same organization(s) as originally did so, or by other designated organizations that are qualified and sufficiently knowledgeable of the requirements and intent of the original document. CGG also establishes programmatic procedure preparation, review and usage controls that ensure procedures are technically and administratively correct. These controls ensure that procedures are reviewed when pertinent source material is revised (such as when Technical Specifications are revised), when unusual incidents occur, when plant modifications are made, and when significant deficiencies are identified. Procedures may also be reviewed because industry experience reviews, use during job execution or training, self-assessments, or independent assessments identify deficiencies or opportunities for improvement. Revisions are made as necessary.

Temporary changes to approved procedures that do not change the intent are approved by two members of plant staff knowledgeable in the areas affected by the procedure. Temporary changes to procedures identified in Appendix B are approved by two members of plant staff knowledgeable in the areas affected

by the procedure, at least one of whom is a person holding an active senior reactor operator's license. Temporary changes are documented, reviewed by the PORC or by a Qualified Reviewer, and approved by the designated approval authority within 14 days of implementation.

The Plant General Manager may designate specific procedures or classes of procedures in writing to be reviewed by Qualified Reviewers in lieu of review by the PORC. Review by Qualified Reviewers shall be in accordance with implementing procedures. In addition, 10 CFR 50.59 and/or 10 CFR 72.48 reviews are performed on designated procedures, including subsequent changes, to determine if NRC review and approval is required prior to implementing the procedures/changes.

Procedures required by Technical Specifications shall be approved by the Plant General Manager or by cognizant managers or other supervisory personnel prior to implementation as specified by administrative requirements. The approval authority for specific procedures or classes of procedures shall be designated in writing by the Plant General Manager.

In establishing provisions for document control, CGG commits to compliance with NQA-1, 1994, Basic Requirement 6 and Supplement 6S-1.

B.15 RECORDS

CGG establishes and implements provisions to ensure that sufficient records of items and activities affecting quality are generated and maintained to reflect completed work. Such records may include, but are not limited to, design, engineering, procurement, manufacturing, construction, inspection, test, installation, modification, operations, maintenance, decommissioning, corrective action, assessment, and associated reviews. The provisions establish requirements for records administration, including generation, receipt, preservation, storage, safekeeping, retrieval and final disposition. For activities governed by 10 CFR 71 or 72, these provisions address the specific requirements of sections 71.135 and 72.174.

CGG uses the list of records in 10 CFR 71.135, 10 CFR 72.174, and Regulatory Guide 1.28, Revision 3, position C.2 (Table 1) to establish the types of records that will be created and retained in support of plant operation. Regulatory Guide 1.28, Revision 3, Table 1 addresses design, construction and initial start-up records and will be applied to operating and decommissioning phase records that are similar in nature to the construction records. Additional operations phase records and their retention periods are identified in Appendix D to this QATR. In those cases where local or State retention requirements are more restrictive than the regulatory guidance, the more restrictive requirements are met. In addition, should CGG choose electronic media storage as a means of maintaining required records; CGG will comply with NRC guidance in RIS 2000-18.

In establishing provisions for records, CGG commits to compliance with NQA-1, 1994, Basic Requirement 17 and Supplement 17S-1, with the following exceptions:

1. Supplement 17S-1, section 4.2(b) requires records to be firmly attached in binders or placed in folders or envelopes for storage in steel file cabinets or on shelving in containers. For hard-copy records maintained by CGG, the records are suitably stored in steel file cabinets or on shelving in containers, except that methods other than binders, folders or envelopes may be used to organize the records for storage.
2. In lieu of the storage facility requirements of Supplement 17S-1 Section 4.4, CGG allows the following alternative storage requirements for organizations other than the records management organization. Organizations that originate records and do not transfer them to the records management within 30 days of completion shall establish one of the following three controls as alternatives to the requirements specified for the records management organization:
 - a) Duplicate Storage - Either 1 or 2.

1. Within 30 days of completion of a record, a duplicate record file shall be established. This activity shall be controlled by procedures which provide for the following: (a) Assignment of responsibility for records; (b) Description of storage area; (c) Description of filing system; (d) An index of the filing system; (e) Rules governing access to and control of files; (f) Methods for maintaining control of and accountability for records removed from the file; (g) Method for filing supplemental information and disposing of superseded or obsolete records; (h) Method for preserving records to prevent deterioration; (i) Method for maintaining specially processed records that are sensitive to light, pressure, or temperature; (j) Transfer of duplicates to the records management organization within two years of completion of records.
2. Make arrangements with at least one other department that receives a copy of each document to subject this other copy to the controls specified above.
- b) Fire-resistant Building Storage - Records shall be stored in steel cabinets located in a fire-resistant building or non-combustible building with a fire suppression system. The procedural controls defined for duplicate storage shall be applied.
- c) Non-fire-resistant Building Storage - Within non-fire-resistant facilities, records shall be stored in UL one-hour-minimum fire-rated storage cabinets and be subject to the procedural controls defined for duplicate storage.

Constellation Generation Group defines a fire resistant building as follows: A facility constructed to resist the initiation or spreading of fire; fire-suppressive and/or non-combustible materials used; building certified as fire-resistant by a person who specializes in the technical field of fire prevention and fire extinguishing.

3. This alternative applies to Calvert Cliffs Nuclear Power Plant. In lieu of the reinforced concrete, concrete block, masonry, or equal construction requirements of Supplement 17S-1, Section 4.4.1(a), the records vault is entirely enveloped by a structurally sound, fire-restive building. The vault rests on a reinforced slab on grade and its walls extend fully to the underside of the structural deck. The walls of the vault are constructed of gypsum wallboard on metal studs per Underwriters Laboratory Test Number U412, assuring the equivalent of 2-hour fire resistant construction. This is equal construction to concrete block in terms of fire protection. The walls carry no structural load; hence, they provide equivalent structural integrity to that needed of concrete block. Supplement 17S-1 Section 4.4.1(b) requires floor and roof drainage control. If a floor drain is provided, a check valve (or equal) shall be included. In lieu of this requirement, the vault is contained within an environmentally protected building. As such, it has no roof, or need for floor drain.

B.16 PLANT MAINTENANCE

CGG establishes controls for the maintenance or modification of items and equipment subject to this QATR to ensure quality at least equivalent to that specified in original design bases and requirements, such that safety-related structures, systems and components are maintained in a manner that assures their ability to perform their intended safety function(s). A preventative maintenance program prescribes the frequency and type of maintenance to be performed. Adjustments are made where necessary to improve equipment performance. Maintenance activities (both corrective and preventive) are scheduled and planned so as not to unnecessarily compromise the safety of the plant. Permission to release equipment or systems for maintenance is granted by designated operating personnel who are responsible to verify that the equipment or system can be released and determine how long it may be out of service. This includes attention to the potentially degraded degree of protection when one subsystem of a redundant safety system has been removed for maintenance. The release is also documented. When equipment is ready to be returned to service, operating personnel place the equipment in operation and verify and document its functional acceptability. In completing maintenance and restoring equipment, attention is given to restoration of normal conditions, such as removal of jumpers or signals used in maintenance or

testing, or such as returning valves, breakers or switches to proper operating positions. Inspections (verifications) of maintenance or modification activities are established, conducted and documented as required by Section B.12 to establish a suitable level of confidence in affected structures, systems, or components.

B.17 COMPUTER SOFTWARE CONTROL

CGG establishes and implements provisions to assure that computer software used in applications affecting safety is prepared, documented, verified and tested, and used such that the expected output is obtained and configuration control maintained. To this end, CGG commits to compliance with the requirements of NQA-1 1994, Supplement 11S-2 to establish the appropriate provisions.

C. ASSESSMENT

C.1 METHODOLOGY

Personnel responsible for the assessment function, including onsite and offsite nuclear safety review committee activities, audits, and other independent assessments are cognizant of day-to-day activities so that they can act in a management advisory function. Assessment activities are technically and performance oriented, with the primary focus on the quality of the end product and a secondary focus on procedures and processes. Assessments are accomplished using instructions, procedures, or other appropriate means that are of a detail commensurate with the activity's complexity and importance to safety.

Ongoing and periodic assessments are used to identify safety concerns and improve performance. Assessments compare actual performance to management expectations, performance of other high-performing organizations, industry standards of excellence, and regulatory requirements. Skilled, knowledgeable internal and external personnel perform assessments. Improvement needs identified by assessments are assigned for action and tracked through completion.

Benchmarking is used to identify options for solving problems, improving performance, and emulating best practices. Managers and coworkers frequently observe work and training activities to recognize strong performance and identify needed improvements. Performance measures are used to identify areas of strong performance, areas needing improvement, and precursors to significant problems.

The organization supports and learns from participation in assessments and evaluations at other facilities. Results of assessments, observations, corrective actions, and independent oversight assessments are reviewed for underlying problems that need resolution. Assessment and corrective action program effectiveness is periodically assessed and the programs are adjusted.

C.2 QUALITY AND PERFORMANCE ASSESSMENT

A program of planned and periodic assessments is established and implemented to confirm that activities affecting quality comply with the QA program and that the QA program has been implemented effectively. Assessments provide comprehensive independent evaluation of activities and procedures. Monitoring and assessment activities are conducted in sufficient depth to identify potentially significant nuclear safety problems. Planning activities identify the characteristics and activities to be assessed and the acceptance criteria. Assessments are conducted using the predetermined acceptance criteria. Use of relevant industry and in-house operating experience information is reviewed during periodic assessments.

Scheduling and resource allocation are based on the status and safety importance of the activity or process being assessed. Scheduling is dynamic to allow for additional assessments in areas where QA program effectiveness is in doubt. Activities of groups performing independent monitoring and assessment are coordinated to encompass all matters relevant to nuclear safety and reliability.

Audits of selected aspects of operational phase activities are performed with a frequency commensurate with their strength of performance and safety significance and in such a manner as to assure that an audit of all safety-related functions is completed within a period of two years. Audits may also be used to meet the periodic review requirements of the code for the Security, Emergency Preparedness, and Radiological Protection programs within the provisions of the applicable code. Audits and assessment activities may be conducted continuously.

The audits performed within a period of two years will include, as a minimum, activities in the following areas:

1. The results of actions taken to correct deficiencies that affect nuclear safety and occur in facility equipment, structures, systems, or method of operation.
2. The conformance of facility operation to provisions contained within the technical specifications and applicable license conditions, including administrative controls.
3. The performance, training, and qualifications of the facility staff.
4. The performance of activities required by the QA program to meet the criteria of 10 CFR Part 50, Appendix B.
5. Observation of performance of operating, refueling, maintenance and modification activities.
6. The Fire Protection Program and implementing procedures. A fire protection equipment and program implementation inspection and audit utilizing either a qualified offsite fire protection engineer or an outside qualified fire protection consultant.
7. The radiological environmental monitoring program and the results thereof;
8. The Offsite Dose Calculation Manual and implementing procedures;
9. The Process Control Program and implementing procedures for processing and packaging of radioactive wastes;
10. The performance of activities required by the QA program for effluent and environmental monitoring; and
11. Other activities and documents considered appropriate by the NSRB or the CNO.

A grace period of 90-days is applied to the audits listed above. The grace period does not allow the "clock" for a particular period to be reset forward. For example, if a biennial audit is due on June 15 of a particular year, but is not performed until August 13, the next due date for that audit will be June 15 of the second year following. However, the clock for an activity is reset backwards by performing the activity early. The 90-day grace period does not apply to audits specified in regulations (i.e. Emergency Preparedness, Security, and Fitness for Duty).

Assessment results are documented and reviewed by the assessor's management and by management having responsibility in the area assessed. Actions to address issues identified through independent monitoring and assessment activities are tracked and completed in a timely manner. Follow-up action, including a re-look at deficient areas, is initiated as necessary. When work carried out under the requirements of the QA program is delegated to others, implementation of that work is assessed by CGG.

If a difference of opinion arises between Q&PA personnel and those of other Sections or Departments, the dispute is resolved as follows: The site management position responsible for Q&PA first tries to resolve the matter with the organization responsible for conducting the activity. If a resolution cannot be obtained, the matter is referred up through the following management personnel until it is resolved:

1. The site management position responsible for Q&PA and the site management position responsible for performing the activity. NOTE: If the dispute is internal to Q&PA, the site management position responsible for Q&PA will settle the issue.
2. The fleet management position responsible for Q&PA and the appropriate Site Vice President
3. The Senior Vice President and Chief Nuclear Officer

Individuals assigned to perform independent monitoring and assessments have the necessary experience, training, and authority to conduct the reviews, audits, or analyses. Individuals assigned to perform independent monitoring and assessments do not have line responsibility for the area being assessed. Assessment resources may be supplemented with technical specialists as needed.

The effectiveness of independent monitoring and assessments are evaluated every two years by an independent organization such as the Nuclear Industry Evaluation Program (NIEP). Results are reported to senior management, and corrective actions are implemented as needed.

In establishing the independent assessment program, CGG commits to compliance with NQA-1-1994, Basic Requirement 18 and Supplement 18S-1.

APPENDIX A**REVIEW FUNCTIONS OF THE PORC, NSRB, AND ISEG**

CGG ensures that operational phase activities of the facilities are independently reviewed on a periodic basis. The purpose of these reviews is to: (1) verify that operational phase activities are performed in accordance with this QATR and CGG administrative controls, procedures, and license provisions; (2) review significant proposed plant changes, tests, and procedures; (3) verify that events that are reportable to the NRC are promptly investigated and corrected so as to reduce the probability of recurrence; and (4) detect trends that may not be apparent to a day-to-day observer.

These review functions are performed through a combination of independent review bodies and internal audits. This appendix describes the review program implemented by the independent review bodies. The internal audit program is addressed in Section C.2 of this QATR. The review programs of this appendix ensure that the personnel performing this review collectively have the experience and competence necessary to review problems in the following areas:

1. Nuclear power plant operations
2. Nuclear engineering
3. Chemistry and radiochemistry
4. Metallurgy
5. Nondestructive testing
6. Radiological safety
7. Mechanical engineering
8. Electrical engineering
9. Instrumentation and control
10. Administrative controls and quality assurance practices
11. Training
12. Emergency plans and related procedures and equipment

An individual may possess competence in more than one specialty area. The established administrative controls contain provisions to assure the appropriate expertise is applied to the independent reviews, including the use of consultants when necessary

Personnel performing the independent review functions meet the qualification requirements of ANS-3.1-1993, subsection 4.7, as clarified in NRC Regulatory Guide 1.8, Revision 3, and this QATR. The provisions of Section 4.1.1.1 of ANS-3.1-1993 may be applied. Independent review personnel shall also complete the required qualification training for the function they are performing.

1.0 PLANT OPERATIONS REVIEW COMMITTEE (PORC)**1.1 FUNCTION**

The PORC shall function to advise the Plant General Manager on all matters related to nuclear safety for their assigned Company facilities.

1.2 COMPOSITION

The PORC shall be composed of a minimum of five members, including the Chairperson. The Plant General Manager shall appoint members in writing, including the PORC Chairperson and Vice Chairpersons drawn from the committee members.

1.3 ALTERNATES

Alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis. Each alternate shall meet the minimum qualifications for regular PORC members, and shall have the same area of expertise as the member being replaced.

1.4 MEETING FREQUENCY

The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson or one of the designated Vice Chairpersons.

1.5 QUORUM

A quorum of the PORC shall include the Chairperson or one of the designated Vice Chairpersons and two members or designated alternates. However, a maximum of one third of the voting membership may be designated alternates. For any PORC decision affecting site-wide issues, the Chairperson shall ensure appropriate representation.

1.6 RESPONSIBILITIES

The PORC shall be responsible for:

- a. Review of (1) all procedures and programs required by facility Technical Specifications administrative controls and changes thereto that require a regulatory evaluation under the facility's 10 CFR 50.59 and 10 CFR 72.48 screening program, (2) changes to the quality program determined to be reductions in the commitment to quality under the provisions of 10 CFR 50.54(a), and (3) any other proposed procedures, programs, or changes thereto affecting facility nuclear safety as determined by the Plant General Manager.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Technical Specifications or the Operating License prior to their submittal to the NRC.
- d. Review of all proposed changes or modifications to systems or equipment that affect nuclear safety.
- e. Rendering determinations in writing or meeting minutes if any item considered under (a) through (d) above, as appropriate and as provided by 10 CFR 50.59, 10 CFR 50.92, or 10CFR 72.48 requires a license amendment or requires a significant hazards consideration determination.

- f. Investigation of all violations of the Technical Specifications including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence to the Plant General Manager, the Site Vice President, the CNO, and to the Chairperson of the Nuclear Safety Review Board.
- g. Review of all Reportable Events.
- h. Review of unit operations to detect potential hazards to nuclear safety.
- i. Performance of special reviews, investigations or analyses and reports thereon as requested by the Plant General Manager or the Chairperson of the Nuclear Safety Review Board.

1.7 AUTHORITY

The Plant Operations Review Committee shall:

- a. Recommend to the approval authority approval or disapproval of procedures considered under 1.6.a above.
- b. Recommend to the Plant General Manager written approval or disapproval in meeting minutes of items considered under Responsibilities 1.6.a through i above. The Plant General Manager will report any issues that require higher level of authority to the Site Vice President.
- c. Evaluate root causes and recommended actions to prevent recurrence for items considered under 1.6.f through g above.
- d. Provide written notification within 24 hours to the Site Vice President and the Chairperson of the Nuclear Safety Review Board of disagreement between the Plant Operations Review Committee and the Plant General Manager; however, the Plant General Manager shall have responsibility for resolution of such disagreements pursuant to Technical Specifications.

1.8 RECORDS

The Plant Operations Review Committee shall maintain written minutes of each meeting and copies shall be provided to the Site Vice President, Chairperson of the Nuclear Safety Review Board, and the Plant General Manager. Records of the minutes shall be maintained in accordance with Section B.15 of this QATR. Open items shall be assigned, tracked and resolved.

2.0 NUCLEAR SAFETY REVIEW BOARD (NSRB)

The NSRB shall ensure that periodic independent reviews and audits of activities are conducted by qualified individuals free from the pressures of plant operations. For new nuclear power plant construction, the NSRB shall be functional at least one year prior to initial core loading. The NSRB serves in an advisory capacity to the CNO.

2.1 REVIEW RESPONSIBILITIES

The NSRB shall ensure periodic independent reviews and audits of activities as stated in the facility Technical Specifications and this QATR are performed. Review of events shall include the results of any investigations made and the recommendations resulting from such investigations to prevent or reduce the probability of recurrence of the event. Additional review activities by the NSRB should be performed to verify adequate organizational response to adverse performance trends.

The NSRB should monitor the results of audits, evaluations, and assessment activities to ensure that items that could affect plant safety are reviewed. The NSRB may delegate review functions to subcommittees, that may include NSRB members, provided that the subcommittees report the results of their reviews to the NSRB.

2.2 COMPOSITION

The NSRB shall be composed of at least five members, including the Chairperson, of whom no more than a minority are members of the onsite operating organization. The CNO shall appoint, in writing, a Chairperson. The Chairperson shall appoint, in writing, a minimum of four members to the NSRB and shall designate from this membership, in writing, a Vice Chairperson. Consultants should be utilized as determined by the NSRB Chairperson to provide expert advice to the NSRB.

2.3 ALTERNATES

Alternates shall be designated in advance, but their use shall be restricted to legitimate absences of principals.

2.4 MEETING FREQUENCY

The NSRB shall meet at least once per six months.

2.5 QUORUM

The quorum of the NSRB necessary for the performance of the NSRB review and audit functions shall consist of a majority of regular members, including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of a Company nuclear facility.

2.6 RECORDS

Minutes of all NSRB meetings shall be prepared and retained. All documents reviewed should be identified. Decisions and recommendations made by the NSRB shall be documented. Minutes of each NSRB meeting shall be disseminated promptly to appropriate members of management having responsibility in the area reviewed. Records of meeting minutes shall be retained in accordance with Section B.15 of this QATR.

3.0 INDEPENDENT SAFETY ENGINEERING GROUP (ISEG)

Independent safety review is performed to meet the individual unit's commitment to NUREG-0737, Section I.B.1.2, "Independent Safety Engineering Group," as described in the unit's safety analysis report, if applicable.

APPENDIX B**PROCEDURES**

CGG uses procedures to provide an approved, preplanned method of conducting activities affecting safety. As stated in position C.1 of Regulatory Guide 1.33, Revision 2, CGG commits to use Appendix A of Regulatory Guide 1.33 as guidance for establishing the types of procedures that are necessary to control and support plant operation. Procedures are sufficiently detailed for a qualified individual to perform the required function without direct supervision, but may not provide a complete description of the system or plant process.

Guidance is established to identify the manner in which procedures are to be implemented, including identification of those tasks that require (1) the written procedure to be present and followed step by step while the task is being performed, (2) the user to have committed the procedure steps to memory, (3) verification of completion of significant steps, as by initials or signatures or use of check-off lists. Procedures that are required to be present and referred to directly are those developed for extensive or complex jobs where reliance on memory cannot be trusted, tasks that are infrequently performed, and tasks where steps must be performed in a specified sequence. When documentation of an action is specified, the necessary data is recorded as the task is performed.

The format of procedures may vary from plant to plant within CGG; however, procedures include the following elements, as appropriate to the purpose or task covered. These elements are not intended to imply a specific format is required:

Title/status: each procedure is given a title descriptive of the work or subject it addresses, and includes a revision number and/or date and an approval status.

Purpose/Statement of applicability: the purpose for which the procedure is intended is clearly stated (if not clear from the title).

References: applicable references, including reference to appropriate Technical Specifications, are included. References are included within the body of the procedure when the sequence of steps requires other tasks to be performed (according to the reference) prior to or concurrent with a particular step.

Prerequisites: identifies those independent actions or procedures that must be accomplished and plant conditions which must exist prior to performing the procedure. A prerequisite applicable to only a specific portion of a procedure is so identified.

Precautions: alert the user to those important measures to be used to protect equipment and personnel, including the public, or to avoid an abnormal or emergency situation during performance of the procedure. Cautionary notes applicable to specific steps are included in the main body of the procedure and are identified as such.

Limitations and actions: limitations on the parameters being controlled and appropriate corrective measures to return the parameter to the normal control band are specified.

Main body: contains the step-by-step instructions in the degree of detail necessary for performing the required function or task.

Acceptance criteria: the quantitative or qualitative criteria against which the success or failure (as of a test-type activity) of the step or action would be judged.

Checkoff lists: complex procedures use checkoff lists. These lists may be included as part of the procedure or may be appended to the procedure.

Certain types of procedures governing generating site activities are common to all plants. Individual plant terminology may vary from the following, and some procedure types may be combined. Sufficient procedures are maintained to provide appropriate direction for these activities. In amplification to the appropriate elements above, such procedures are further defined as follows:

System Procedures: contain instructions for energizing, filling, venting, draining, starting up, shutting down, changing modes of operation and other instructions appropriate for operations of systems related to the safety of the plant. Separate procedures may be developed for correcting off-normal conditions for those events where system complexity may lead to operator uncertainty. System procedures contain check-off lists where appropriate.

Start-up Procedures: contain instructions for starting the reactor from cold or hot conditions and establishing power operation. This includes documented determination that prerequisites have been met, including confirmation that necessary instrumentation is operable and properly set; necessary system procedures, tests and calibrations have been completed; and required approvals have been obtained. The main body includes the major steps of the start-up sequence, including reference to appropriate systems procedures. Start-up procedures contain check-off lists where appropriate.

Shutdown Procedures: contain instructions for operations during controlled shutdown and following reactor trips, and include instructions for establishing or maintaining hot standby or cold shutdown conditions, as applicable. The major steps involved in shutting down the plant are specified, including instructions for such actions as monitoring and controlling reactivity, load reduction, cooldown rates, activating or deactivating equipment, and provisions for decay heat removal. Check-off lists are used, as appropriate, for confirming completion of major steps in proper sequence.

Power Operation and Load Changing Procedures: contain instructions for steady-state power operation and load changing that include provisions for use of control rods, chemical shim, coolant flow channel control, or for any other system available for short- or long-term control of reactivity, making deliberate load changes and adjusting operating parameters.

Process Monitoring Procedures: contain instructions for monitoring performance of plant systems to assure that core thermal margins and coolant quality are maintained in acceptable status at all times, that integrity of fission product barriers is maintained, and that engineered safety features and emergency equipment are in a state of readiness to keep the plant in a safe condition if needed. Maximum and minimum limits for process parameters are appropriately identified.

Fuel Handling Procedures: contain instructions for core alterations, accountability of fuel and partial or complete refueling operations that include, for example, continuous monitoring of neutron flux throughout core loading, periodic data recording, audible annunciation of abnormal flux increases, and evaluation of core neutron multiplication to verify safety of loading increments. Procedures are also provided for receipt and inspection of new fuel, and for fuel movements in the spent fuel storage areas. Fuel handling procedures include prerequisites to verify the status of systems required for fuel handling and movement; inspection of replacement fuel and control rods; designation of proper tools, proper conditions for spent fuel movement, proper conditions for fuel cask loading and movement; and status of interlocks, reactor trip circuits and mode switches. These procedures provide requirements for refueling, including proper sequence, orientation and seating of fuel and components, rules for minimum operable instrumentation, actions for response to fuel damage, verification of shutdown margin, communications between the control room and the fuel handling station, independent verification of fuel and component locations, criteria for stopping fuel movements, and documentation of final fuel and component serial numbers and locations.

Maintenance Procedures: contain instructions in sufficient detail to permit maintenance work to be performed correctly and safely, and include provisions for conducting and recording results of required inspections or tests. Appropriate referencing to other procedures or vendor manuals is provided. Instructions are also provided, although not necessarily in Maintenance Procedures, for equipment

removal and return to service, and appropriate radiation protection measures (such as protective clothing and radiation monitoring).

Radiation Control Procedures: contain instructions for implementation of program requirements necessary to meet regulatory commitments, including acquisition of data and use of equipment to perform necessary radiation surveys, measurements and evaluations for the assessment and control of radiation hazards. These procedures provide requirements for monitoring both external and internal exposures of employees, utilizing accepted techniques; routine radiation surveys of work areas; environmental monitoring in the vicinity of the plant; radiation monitoring of maintenance and special work activities, and for maintaining records demonstrating the adequacy of measures taken to control radiation exposures to employees and others.

Calibration and Test Procedures: contain instructions for periodic calibration and testing of safety related instrumentation and control systems, and for periodic calibration of measuring and test equipment used in activities affecting the quality of these systems. These procedures provide for meeting surveillance requirements and for assuring measurement accuracy adequate to keep safety related parameters within operational and safety limits.

Chemistry-radiochemistry Control Procedures: contain instructions for chemical and radiochemical activities such as the nature and frequency of sampling and analyses; maintaining coolant quality within prescribed limits; limitations on concentrations of agents that could cause corrosive attack, foul heat transfer surfaces or become sources of radiation hazards due to activation; control, treatment and management of radioactive wastes and control of radioactive calibration sources, including shipping.

Emergency Procedures: contain instructions for response to potential emergencies so that a trained operator will know in advance the expected course of events that will identify an emergency and the immediate actions that should be taken in response. Format and content of emergency procedures are based on regulatory and Owner's Group(s) guidance that identify potential emergency conditions and generally require such procedures to include a title, symptoms to aid in identification of the nature of the emergency, automatic actions to be expected from protective systems, immediate operator actions for operation of controls or confirmation of automatic actions, and subsequent operator actions to return the reactor to a normal condition or provide for a safe extended shutdown period under abnormal or emergency conditions.

Emergency Plan Implementing Procedures: contain instructions for activating the Emergency Response Organization and facilities, protective action levels, organizing emergency response actions, establishing necessary communications with local, state and federal agencies, and for periodically testing the procedures, communications and alarm systems to assure they function properly. Format and content of such procedures are such that requirements of each site's NRC approved Emergency Plan are met.

Test and Inspection Procedures: contain the objectives, acceptance criteria, prerequisites for performing the test or inspection, limiting conditions, and appropriate instructions for performing the test or inspection. These procedures also specify any special equipment or calibrations required to conduct the test or inspection and provide for appropriate documentation and evaluation by responsible authority to assure test or inspection requirements have been satisfied. Where necessary, hold or witness points are identified within the procedures and require appropriate approval for the work to continue beyond the designated point. These procedures provide for recording the date, identification of those performing the test or inspection, as-found condition, corrective actions performed (if any), and as-left condition, as appropriate for the subject test or inspection.

While not specifically a procedure type, **Temporary Procedures** may be used to direct operations during testing, refueling, maintenance and modifications; to provide guidance in unusual situations not within the scope of normal procedures; and to insure orderly and uniform operations for short periods when the plant, a system, or a component of a system is performing in a manner not covered by existing detailed procedures, or has been modified or affected in such manner that portions of existing procedures do not apply. Temporary Procedures include designation of the period of time during which they may be used.

APPENDIX C**DEFINITIONS**

CGG uses the definitions of terms as provided in Section 4 of the Introduction of NQA-1-1994 in interpreting the requirements of NQA-1 and the other standards to which the QATR commits. In addition, definitions are provided for the following terms not covered in NQA-1:

Administrative controls: rules, orders, instructions, procedures, policies, practices and designations of authority and responsibility.

Assessment: assessing the level of performance, or output of an activity or organization, as compared to management expectations and industry standards of excellence. Recommendations are documented to achieve improvements in the assessed area.

Audit: a planned and documented activity performed to determine by investigation, examination, or evaluation of objective evidence the adequacy of and compliance with established procedures, instructions, drawings, and other applicable documents, and the effectiveness of implementation. An audit should not be confused with inspection activities performed for the sole purpose of process control or product acceptance.

Emergency procedures: see Appendix B.

Experiments: performance of plant operations carried out under controlled conditions in order to establish characteristics or values not previously known.

Independent Assessment: the process used to provide ongoing independent evaluation and communication of results to management on program performance, trends, and management effectiveness.

Independent Review: review completed by personnel not having direct responsibility for the work function under review regardless of whether they operate as part of an organizational unit or as individual staff members.

Maintenance and modification procedures: written procedures defining the policies and practices by which structures, mechanical, electrical and instrumentation and control systems, and components thereof, are kept in a condition of good repair or efficiency so that they are capable of performing their intended functions.

Nuclear power plant: any plant using a nuclear reactor to produce electric power, process steam or space heating.

Off-normal condition procedures: written procedures which specify operator actions for restoring an operating variable to its normal controlled value when it departs from its range, or to restore normal operating conditions following a perturbation. Such actions are invoked following an operator observation or an annunciator alarm indicating a condition which, if not corrected, could degenerate into a condition requiring action under an emergency procedure

On-site operating organization: on-site personnel concerned with the operation, maintenance and certain technical services.

Operating activities: work functions associated with normal operation and maintenance of the plant, and technical services routinely assigned to the on-site operating organization.

Operating procedures: written procedures defining the normal methods, means and limits of operation of the nuclear power plant, a plant system or systems, or processes, including actions to be taken by operating personnel for removal from and return to service equipment on which maintenance is to be or has been performed.

Operational phase: that period of time during which the principal activity is associated with normal operation of the plant. This phase of plant life is considered to begin formally with commencement of initial fuel loading, and ends with plant decommissioning.

Review: a deliberately critical examination, including observation of plant operation, evaluation of assessment results, procedures, certain contemplated actions, and after-the-fact investigations of abnormal conditions.

Self-Assessment: an internal evaluation of the level of performance, or output of an activity or organization, as compared to management expectations and industry standards of excellence. Recommendations are documented to achieve improvements in the assessed area.

Supervision: direction of personnel activities or monitoring of plant functions by an individual responsible and accountable for the activities they direct or monitor.

Surveillance testing: periodic testing to verify that safety related structures, systems and components continue to function or are in a state of readiness to perform their functions.

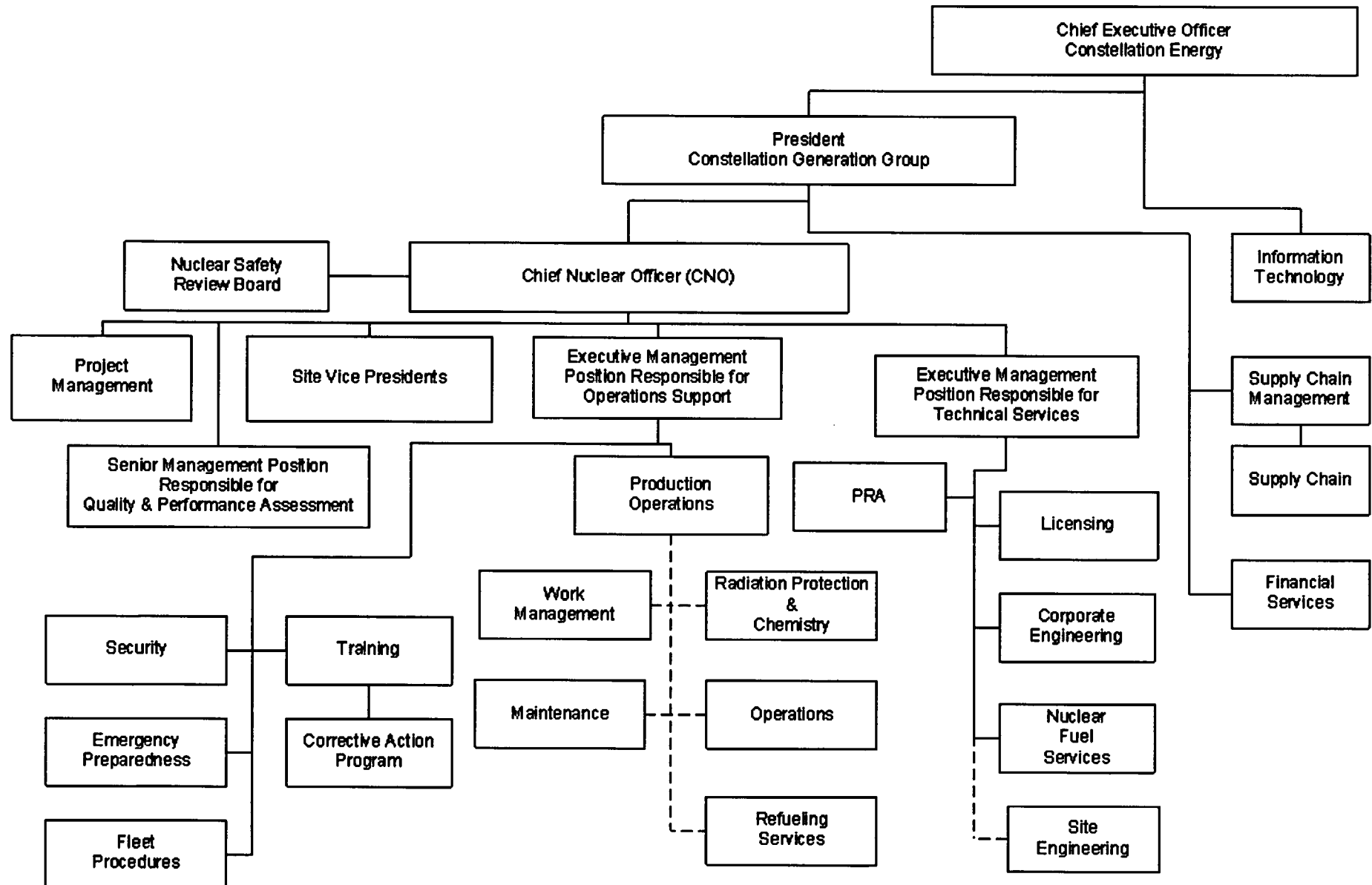
System: an integral part of nuclear power plant comprising components which may be operated or used as a separate entity to perform a specific function.

APPENDIX D**OPERATIONS PHASE ACTIVITY RECORDS**

The following table provides a list of operations phase nonpermanent and lifetime records and their respective retention times. These records retention requirements are in addition to those described in Section B.15 of this QATR.

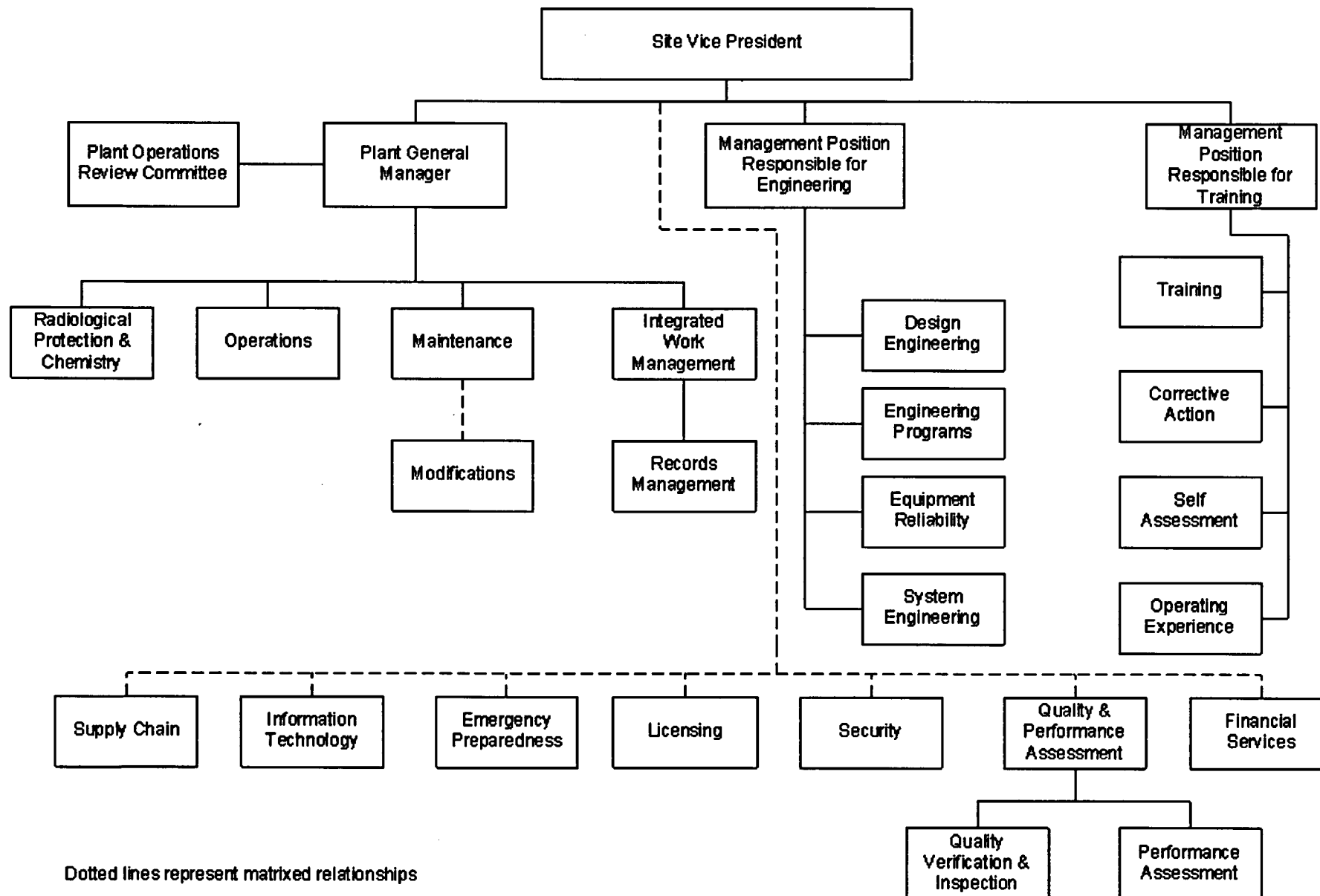
Records Description	Retention Time
Records and drawing changes reflecting unit design modifications made to systems and equipment described in the SAR.	Lifetime
Records of new and irradiated fuel inventory, fuel transfers, and assembly burnup histories.	Lifetime plus 3 years
Records of radiation exposure for all individuals entering radiation control areas.	Lifetime
Records of gaseous and liquid radioactive material released to the environs.	Lifetime
Records of transient or operational cycles for those unit components designed for a limited number of transients or cycles.	Lifetime
Records of reactor tests and experiments.	Lifetime
Records of training and qualification for current members of the unit staff.	Lifetime
Records of in-service inspections performed pursuant to the Technical Specifications.	Lifetime
Records of evaluations performed for changes made to procedures or equipment or evaluations of tests and experiments pursuant to 10 CFR 50.59 or 10 CFR 72.48.	Lifetime
Records of meetings of the PORC and the NSRB.	Lifetime
Records of offsite environmental monitoring surveys.	Lifetime
Records of unit radiation and contamination surveys.	Lifetime
Records of secondary water sampling and water quality.	Lifetime
Records of the service lives of all snubbers, including the date at which the service life commences and associated installation and maintenance records. (Does not apply to NMP Unit 1)	Lifetime
Records of QA activities required by this QATR and not otherwise listed.	Lifetime
Records and logs of unit operation covering time interval at each power level.	5 years
Records and logs of principal maintenance activities, inspections, repair, and replacement of principal items of equipment related to nuclear safety.	5 years (except ISFSI activities are Lifetime)
All Reportable Events submitted to the Commission.	5 years
Records of surveillance activities, inspections, and calibrations required by the Technical Specifications.	5 years
Records of changes made to the procedures required by Technical Specifications.	5 years
Records of radioactive shipments.	5 years
Records of sealed source and fission detector leak tests and results.	5 years
Records of annual physical inventory of all sealed source material of record.	5 years

APPENDIX E
ORGANIZATION RELATIONSHIPS OF KEY MANAGEMENT
AND FUNCTIONAL GROUPS
CORPORATE AND TECHNICAL SUPPORT



Dotted lines represent matrixed relationships

APPENDIX E
ORGANIZATION RELATIONSHIPS OF KEY MANAGEMENT
AND FUNCTIONAL GROUPS
SITE ORGANIZATION



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CGG QATR EXCEPTIONS/ALTERNATIVES

A.5 Personnel Training and Qualification

1. For NQA-1-1994 Supplement 2S-1: Inspections, examinations or tests may be performed by individuals in the same organization as that which performed the work, provided that (a) the qualifications of the inspector for an activity are the same as the minimum qualifications for persons performing the activity, (b) the work is within the skills of personnel and/or is addressed by procedures, and (c) if work involves breaching a pressure-retaining item, the quality of the work can be demonstrated through a functional test. When a, b and c are not met, inspections, examinations or tests are carried out by individuals certified in accordance with Supplement 2S-1. Individuals performing visual inspections required by the ASME Boiler and Pressure Vessel Code are qualified and certified according to Code requirements.

Basis

The purpose of the exception is to permit line personnel, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception addresses the training and qualification required of these individuals, and the conditions under which they can conduct these activities. Complementary to this exception is an exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel (See discussion for Exception 2). The exception to Non Mandatory Appendix 2A-1 applies to the same personnel as those covered by the exception to Supplement 2S-1; since these personnel are trained and qualified to perform the activities as specified under this exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This exception to Supplement 2S-1 will be implemented through training for personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities that are in the same organization as that which performed the work. Constellation Generation Group will apply this exception only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The implementation of this exception will ensure that (1) the same minimum level of qualification is required as for those who performed the work, (2) the personnel will be required to have the necessary skills and/or have the verification requirements specified in procedures, and (3) where the work involves the breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The inspection planning process, performed by personnel qualified in accordance with CGG's commitment to NQA-1-1994, Supplement 2S-1 and Appendix 2A-1, takes the above three factors into account by establishing who will be responsible for performing the inspection. If the above three factors cannot be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

The alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills necessary to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training- based training program that meets 10 CFR 50.120.

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CGG QATR EXCEPTIONS/ALTERNATIVES

This exception was based on the 2005 Nuclear Management Company (NMC) fleet QATR submittal; NMC based it on a previous Palisades exception. This alternative is used by NMC to describe alternative training methods if it implemented line performance of quality control inspections. Constellation Generation Group will also apply it only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The qualification requirements for this alternative are documented in the basis for the NMC Quality Assurance Topical Report (QATR) Exception A.5 for NQA-1-1994, Supplement 2S-1 in Enclosure 3 of the NMC letter dated March 31, 2003 (ML033070161). The approval for this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255, dated February 27, 1992. The basis for the NMC alternative is that (1) the same level of qualification is required as for the individual who performed the work, (2) the personnel will be required to have the necessary skills and/or the verification requirements will be specified in the procedures/instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of quality verification inspections and tests.

This exception is acceptable for CGG because the basis for the CGG exception is equal to that indicated in the NMC alternative.

2. In lieu of being certified as Level I, II or III in accordance with Non-mandatory Appendix 2A-1 of NQA-1-1994, personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities, that are in the same organization as that which performed the work, will be required to possess the same minimum level of qualification as that required for performing the task being verified. The verification shall be within the skills of these personnel and/or is addressed by procedures. These individuals will not be responsible for the planning of quality verification inspections and tests (i.e. establishing hold points and acceptance criteria in procedures, or determining who will be responsible for performing the inspections), evaluating inspection training programs, or certifying inspection personnel.

Basis

The purpose of the exception is to allow CGG line personnel at Nine Mile Point, Ginna and Calvert Cliffs who perform inspections and are in the same organization as that which performed the work, are qualified in an accredited systematic approach to training-based training program that meets 10 CFR 50.120, have the same level of qualification as the individual performing the task, have the necessary skills, and have the verification requirements specified in procedures, to be exempt from being certified Level I, II, or III as required in NQA-1-1994 Non Mandatory Appendix 2A-1. Complementary to this exception is an exception to NQA-1-1994 Supplement 2S-1, regarding alternative qualifications for inspectors (See discussion for Exception 1). The purpose of the exception to Supplement 2S-1 is to permit line personnel, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel, applies to the same personnel as those covered by the exception to Supplement 2S-1; since these personnel are trained, qualified, and perform

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the activities as specified under the 2S-1 exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills needed to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training-based training program that meets 10 CFR 50.120.

This alternative is similar to the qualification requirements documented in the basis for the Nuclear Management Company Quality Assurance Topical Report (NMC QATR) for a related Exception to NQA-1-1994, Supplement 2S-1. The approval of this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255 dated February 27, 1992. The basis for the Constellation change for Nine Mile Point, Ginna, and Calvert Cliffs is equal to that indicated in the NMC alternative in that (1) the same level of qualification is required, (2) the personnel will be required to have the necessary skills and/or the verification requirements will be specified in the procedures/ instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of Quality Verification inspections and tests. If the above factors can not be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

This exception is acceptable for CGG because the accredited systematic approach to training-based training program evaluates and qualifies individuals to tasks, and determines minimum requirements relating to education, skills and experience, and the inspection criteria will be developed by and specified in written instructions by an individual qualified to NQA-1-1994 Appendix 2A-1.

3. In lieu of NQA-1-1994 Supplement 2S-2, CGG will follow the applicable standard cited in the latest version(s) of Sections III and XI of the ASME Boiler and Pressure Vessel Code approved by the NRC for use at CGG sites for qualification of nondestructive examination personnel.

Basis

The Safety Analysis Report for each of the CGG plants specifies the ASME Code Editions/Addenda to which each of the plants comply. The ASME Code, Sections III and XI, identifies specific editions of SNT-TC-1a or CP-189; different Code editions/addenda may identify different editions of SNT-TC-1a/CP-189.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This exception is acceptable for CGG because it ensures that NRC approved qualification requirements for nondestructive examination (NDE) personnel are imposed while providing flexibility for each plant to continue to use their current requirements. The exception also assures such requirements are consistent with current industry practice. It should be noted that CGG commits to compliance with Regulatory Guide 1.28, Revision

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CGG QATR EXCEPTIONS/ALTERNATIVES

3 which does not contain specific guidance on the use of SNT-TC-1A/CP-189. This exception will be implemented at Calvert Cliffs, Nine Mile Point and Ginna.

4. For NQA-1-1994 Supplement 2S-3: The requirement that prospective Lead Auditors have participated in a minimum of five (5) audits in the previous three (3) years is replaced by the following:

"The prospective lead auditor shall demonstrate his/her ability to effectively lead and implement the audit process according to Section C.2 of the QATR, and to effectively organize and report results, including participation in at least one independent audit within the year preceding the date of qualification. Constellation Generation Group describes this process in written procedures and shall evaluate and document the results of the demonstration."

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

As described in the "Revised Submittal of Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated December 21, 1998, the revised requirements for certification of lead auditors are consistent with the guidance provided by the NRC in a letter "Review of Nuclear Energy Institute Proposed Improvements to QA Programs," dated October 24, 1996. The revised requirement meets the intent of Section 3.3 of NQA-1-1994 to have the prospective lead auditor demonstrate the ability to effectively implement the audit process and to lead an audit team. Since the revised requirements meet the intent of the original requirement and the NRC has proposed this approach as an acceptable alternative, this change does not reduce the scope of the quality assurance program.

The NRC notes in their Safety Evaluation Report to R.E. Ginna Nuclear Power Plant, dated April 6, 1999, that in an October 24, 1996 letter to the Nuclear Energy Institute, the NRC staff provided its position with regard to acceptable industry proposed alternatives on quality assurance processes for qualifying auditors and for conducting annual evaluations of suppliers. Rochester Gas and Electric's proposed alternative for certifying lead auditors, as described was consistent with the staff's position in the cited letter. The inclusion in the CGG fleet QATR extends the exception to Calvert Cliffs and Nine Mile and the exception will be implemented consistently throughout CGG.

5. NQA-1-1994, Supplement 2S-1 and 2S-3: A grace period of 90 days may be applied to the performance of annual evaluations of inspection, examination and testing personnel qualifications defined in Supplement 2S-1, and annual lead auditor recertifications described in Supplement 2S-3. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

Basis

Supplement 2S-1 requires that the performance of inspection and test personnel be reevaluated at periodic intervals not to exceed 3 years. In addition, the supplement specifies that any person who has not performed inspection or testing activities in his

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qualified area for a period of 1 year shall be reevaluated. Supplement 2S-3 requires annual re-evaluation of lead auditor qualifications. Neither supplement addresses any grace period for the activities, thereby defaulting to a literal interpretation of annual, every three years, etc. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, "Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backwards when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point for lead auditors. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

A.7.3 Regulatory Commitments

6. Regulatory Position C of Regulatory Guide 1.28, Revision 3, endorses the basic and supplementary requirements of ANSI/ASME NQA-1-1983 and the ANSI/ASME NQA-1a-1983 Addenda. In place of the specific edition and addenda of NQA-1 addressed in the Regulatory Guide, CGG commits to implement the requirements of NQA-1-1994 Part I.

Basis

We are adopting ASME NQA-1-1994 Part 1 consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation "Proposed Change to the Quality Assurance Program, Quality Assurance Program Consolidation, Exelon Generation Company, LLC and Amergen Energy Company, LLC," dated December 24, 2002. CGG's conformance to NQA-1-1994 Part I is documented in CGG QATR.

In the Code of Federal Regulations, 10 CFR 50.54(a)(3)(i) allows "The use of a QA standard approved by the NRC which is more recent than the standard in the licensee's current QA program at the time of the change." Although the NRC has not yet specifically endorsed NQA-1-1994 in their regulatory guides, Regulatory Guide 1.28, Revision 3, dated August 1985, endorsed NQA-1-1983. Correspondence by the NRC and related NRC Safety Evaluation Report (SER) dated December 24, 2002, for approval of Revision 70 of QATR EGC-1A, for EXELON/AMERGEN plants, subsection 3.2.1, determined that the requirements of the 1983 and 1994 editions of NQA-1 are equivalent. Based on the related NRC safety evaluation, CGG's use of NQA-1-1994 is consistent with 10 CFR 50.54(a)(3)(ii), which states, "The use of a quality assurance alternative or exception approved by an NRC safety evaluation, provided that the bases of the NRC

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approval are applicable to the licensee's facility" is not a reduction in commitment. EXELON has submitted a comparison of NQA-1-1983 with NQA-1-1994, used as part of the basis for the NRC approval, which applies to CGG's QATR. In addition, CGG prepared a table to compare the ANSI N18.7 standard to NQA-1-1994 and the CGG QATR (Attachment 3 to the QATR submittal).

7. Regulatory Position C.1 of Regulatory Guide 1.28. After further reviews associated with this item, CGG has determined that this alternative is not needed and will delete it from its submittal. Nine Mile Point, Ginna, and Calvert Cliffs will meet the requirements of NQA-1-1994 Non-Mandatory Appendix 2A-1 for their Quality Assurance organizations.
8. The guidance of Regulatory Guide 1.28, Revision 3, Regulatory Position C.3.2, regarding external audits will also be implemented in the operational phase. Constellation Generation Group complies with Regulatory Position C.3.2 with the exception that for Regulatory Position C.3.2.2, CGG may review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). Additionally, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action. A grace period of 90 days may be applied to the performance of triennial supplier audits described in Regulatory Position C.3.2.1. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

Basis

The exception to Regulatory Position C.3.2.1 involves a 90 day grace period for the performance of supplier triennial audits. This exception is analogous to provisions in Technical Specifications that allow a 25% grace period for the performance of periodic surveillances. The proposed grace period is intended to provide flexibility in scheduling activities. Since the clock for an activity cannot be reset forward, the average frequency at which an activity is performed will remain the same.

The exception to Position C.3.2.1 was originally an exception to the provisions of Regulatory Guide 1.144, Revision 1, and was approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation "Proposed Revision 25 to the Rochester Gas and Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant," dated July 22, 1998. The approval allowed a 90-day grace period for supplier audits. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backwards when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same. This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

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The exception to Regulatory Position C.3.2.2 provides for a documented ongoing evaluation of the supplier's performance, rather than an annual evaluation. The ongoing evaluation of suppliers takes into account the review of supplier furnished documents, such as certificates of conformance, non-conformance notices, and corrective actions, as well as evaluating the results of previous source surveillances/verifications, audits/surveys, and receiving inspections. Constellation Generation Group also reviews operating experience information pertaining to equipment failures and evaluates the results of audits from other sources (e.g. NUPIC audits) for their effect on supplier qualification status. As described in procedures at all CGG plants, the results of these evaluations are reviewed and appropriate corrective action taken. Furthermore, adverse findings resulting from these evaluations are periodically reviewed to determine if, in the aggregate, they result in a significant condition adverse to quality. Additionally, the results of these evaluations are used to provide input to support supplier audit activities conducted by CGG or third party auditing organizations.

If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes. Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

The exception to Position C.3.2.2 is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. In establishing their exception NMC stated that:

"Industry programs, such as those applied by ASME, NUPIC, or other established utility groups, are used as input or the basis for supplier qualification whenever appropriate."

and

"NMC will review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). In addition, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action."

This exception is acceptable for CGG because CGG has taken an approach to the ongoing evaluation of supplier performance consistent with the NMC exception. This exception will not reduce the effectiveness of the supplier evaluation program, as CGG will implement all the applicable provisions for an ongoing evaluation process contained in the previously approved NMC exception. This exception applies to Nine Mile Point, Ginna, and Calvert Cliffs.

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CGG QATR EXCEPTIONS/ALTERNATIVES

9. In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant instrumentation that contain the date of calibration and identity of person that performed the calibration. Calibrations of instruments are scheduled and tracked by a computer database.

Basis

In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant instrumentation that contain the date of calibration and identify the person that performed the calibration. Instead calibrations of instruments are scheduled and tracked by a computer database. The information in the database insures the calibration information meets the requirements of the standard and is correlated with the equipment by unique identification numbers on the equipment.

This alternative is consistent with the provision approved by the NRC in Safety Evaluation Report "Entergy Operations, Inc. Quality Assurance Program Consolidation," dated November 6, 1998. The intent of the alternative was to allow other methods of identifying equipment with calibration information other than by tagging. The staff recognized approved alternative methods, such as using a calibration log that is correlated with the equipment by unique identification numbers on the equipment. The staff found that alternatives to tagging equipment with calibration information are acceptable and that the requirements of 10 CFR 50, Appendix B continue to be met.

This alternative is acceptable for CGG because the currently approved quality assurance programs for Calvert Cliffs and Nine Mile Point already incorporate the same alternatives and process as approved for NMC. The inclusion of this exception into the Fleet QATR extends the exception to Ginna and is acceptable because it will be implemented with the same controls and process as currently in place at Calvert Cliffs and Nine Mile Point.

10. a. NQA-1-1994 Part I contains quality assurance requirements equivalent to those of ANSI N18.7-1976/ANS-3.2, and CGG has included in this QATR the remaining "administrative controls" elements from ANSI N18.7-1976/ANS-3.2. Therefore, CGG does not commit to compliance with the requirements of ANSI N-18.7-1976/ANS-3.2 as endorsed by Regulatory Guide 1.33, Revision 2, Regulatory Position C.
- c. Constellation Generation Group's commitment to the applicable regulatory guides and associated standards listed in Regulatory Position C.2 of Regulatory Guide 1.33, Revision 2, is addressed within the CGG QATR. A number of these Regulatory Guides and standards have been incorporated into NQA-1-1994 Part I.
- f. In lieu of compliance with Regulatory Position C.5 of Regulatory Guide 1.33, Revision 2, CGG has established appropriate equivalent requirements within this QATR.

Basis

Constellation Generation Group recognizes that NRC Regulatory Guide 1.33, "Quality Assurance Program Requirements (Operations)" endorses ANSI Standard N18.7, "Administrative Controls and Quality Assurance for the Operational Phase of Nuclear

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Power Plants". The CGG plants have current commitments to this standard. We have concluded that the QATR, combined with our commitment to Regulatory Guide 1.28, provides an acceptable alternative to Regulatory Guide 1.33 and ANSI N18.7-1976, in that the QATR provides quality assurance and administrative control requirements consistent with that guidance, as well as a quality assurance program that meets 10 CFR 50, Appendix B. Attachment 3 to the QATR submittal is a table illustrating that the quality assurance requirements of N18.7-1976 are addressed through our commitment to NQA-1-1994, and the administrative controls of N18.7 are addressed by inclusion of equivalent requirements within the text of the QATR.

11. In lieu of the six and twelve month audit frequencies specified in Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, CGG audits selected aspects of operational phase activities at a frequency commensurate with their safety significance in such a manner as to assure an audit of all safety-related functions is completed within a period of two years. (except as otherwise required in regulations). Constellation Generation Group's audit program includes the elements listed in Regulatory Position C.4. In addition, a 90-day grace period may be applied to the 24-month frequency for performing internal audits. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

Basis

Regarding biennial internal audits, this exception is acceptable because it continues similar exceptions previously approved by the NRC for Calvert Cliffs, Nine Mile Point and Ginna. Each CGG site has a current exception to the six and twelve month audit frequencies specified in Regulatory Position C.4 of Regulatory Guide 1.33. Ginna's exception was approved by the NRC on March 22, 1995, under a 10 CFR 50.54(a) submittal. Calvert Cliff's exception was included in their October 18, 1996 submittal to the NRC of Revision 47 of the QA Policy document. Nine Mile Point's exception was included in their October 24, 2005 submittal to the NRC of Revision 19 to the Nine Mile Point Unit 1 UFSAR.

Regarding the 90 day grace period, Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, requires that the audits of all safety-related functions are completed within a period of 2 years, with certain clarifications. The regulatory guide does not address any grace period for the audits, thereby defaulting to a literal interpretation of every two years. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, "Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant," dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backward when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will

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remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

12. CGG substitutes NQA-1-1994, Subpart 2.3 for N45.2.3 in its commitment to Regulatory Guide 1.39, September 1977. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.3 includes commitment to those standards to the extent necessary to implement Subpart 2.3 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the provisions of Section 3.2.3 of N45.2.3 are not part of the Regulatory endorsement. As NQA-1, Subpart 2.3, Section 3.2.3 has the same wording as N45.2.3; the Regulatory Position is applicable and will be followed in CGG's implementation of Subpart 2.3. Regulatory Position C.3 indicates that the endorsed standard is "applicable for housekeeping activities during the operations phase that are comparable to those occurring during construction." This is addressed in section B.7 of the QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.3.

Basis

This exception was based on the 2005 Dominion fleet QATR submittal. Dominion used this exception to establish an alternative program for housekeeping requirements. This is acceptable for CGG because the NRC staff found that wording of NQA-1-1994 Subpart 2.3 contains equivalent requirements to Regulatory Guide 1.39, September 1977, and ANSI N45.2.3-1973. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities.

- 13 CGG substitutes NQA-1-1994, Subpart 2.8 for N45.2.8 in its commitment to Regulatory Guide 1.116, May 1977. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.8 includes commitment to those standards to the extent necessary to implement Subpart 2.8 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the endorsed standard should be "followed for those applicable operations phase activities that are comparable to activities occurring during the construction phase." This is addressed in section B.12 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.8.

Basis

CGG is adopting ASME NQA-1-1994 Subpart 2.8 consistent with the provisions approved by the NRC in Safety Evaluation of Proposed Change to the Quality Assurance Program, Quality Assurance Program Consolidation for Dominion Nuclear Connecticut, Inc. and Virginia Electric and Power Company, dated September 9, 2005. The NRC staff found that NQA-1-1994 Subpart 2.8 contains equivalent requirements to Regulatory Guide 1.116, May 1977, and ANSI N45.2.8-1975.

This alternative is acceptable based on providing an equivalent level of control over installation, inspection and testing of mechanical equipment and systems.

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14. CGG commits to Regulatory Guide 4.15, Revision 1, February 1979, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) – Effluent Streams and the Environment," Section C, with the following alternatives/exceptions:

- a. In lieu of plotting background parameters and setting predetermined control values for gamma spectroscopy instrumentation as described in Regulatory Position C.6.2, background results may be logged and evaluated to ensure the background does not bias reported results.
- b. The NRC's independent sampling and analysis program described in Regulatory Position C.6.3.2 may not be performed.
- c. In lieu of performing source check calibrations at least once per 18 months as described in Regulatory Position C.7, CGG may perform these calibrations at least once per refueling interval.

Basis

This exception is for Ginna, Nine Mile Point and Calvert Cliffs. In establishing a commitment to Regulatory Guide 4.15 in the QATR, CGG is taking three exceptions to the regulatory guide.

- a. In accordance with Regulatory Position C.6.2, CGG plots (i.e. graph paper) and trends backgrounds on all laboratory instrumentation with the exception that an alternate method may be used for gamma spectroscopy. In this case, an alternate but equally effective method may be implemented: Gamma isotopic backgrounds are counted routinely and all nuclides are checked for the presence of contamination (i.e. a peak) to ensure each background for each nuclide does not impact any analysis result. If contamination is detected (i.e. a peak is identified), remedial action is taken. Adequacy and accuracy of results are checked in an inter-laboratory test program. Inter-laboratory and intra-laboratory test data are carefully evaluated to determine bias. This method performs the same function as graphing the data without the need to actually plot the data on graph paper. This reduces an unnecessary administrative burden without loss of quality relative to identification of background contamination.
- b. The exception to the NRC's independent sampling and analysis program (Regulatory Position C.6.3.2) is based on the NRC having discontinued their Confirmatory Measurements Program.
- c. Regulatory Position C.7, "Quality Control for Continuous Effluent Monitoring Systems," states that sources that have been related to initial calibration should be used to check this initial calibration at least once per 18 months (normally during refueling outages). Calvert Cliffs and Nine Mile Point currently have 24 month refueling cycles. This change of frequency allows source check calibrations consistent with Technical Specification amendments such as the "Twenty Four Month Cycle Technical Specification Amendments for Calvert Cliffs Nuclear Power Plants Units 1 and 2" issued November 3, 1987 in a Safety Evaluation by the Office of Nuclear Reactor Regulation. This alternative remains consistent with the intent of this Regulatory Guide: specifically, to periodically perform source check calibrations.

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15. Generic Letter 82-21, "Technical Specification for Fire Protection Audits." In lieu of the 12-month, 24-month, and 36-month fire protection and loss prevention audits, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures. The biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant.

Basis

In lieu of the 12, 24, and 36 month fire protection audits described in Generic Letter 82-21, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures.

This exception was based on previously approved Ginna and Calvert Cliffs submittals. This exception was an alternative reviewed and accepted by the NRC staff for Revision 21 of Ginna's QAPSO in the "10 CFR 50.54 Quality Assurance Program Change Review" dated March 22, 1995. The annual fire protection audit requirement was incorporated into the biennial fire protection audit at Calvert Cliffs in Revision 43 to the QAP. Calvert Cliffs' revised QAP was reviewed and accepted by the NRC staff in the "10 CFR 50.54 Quality Assurance Program Change Review" dated September 25, 1996. This exception is already being implemented at Ginna and Calvert Cliffs.

This exception is acceptable for implementation by CGG as the biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant. This exception is already being implemented at Ginna and Calvert Cliffs. The inclusion in the CGG Fleet QATR extends the exception to Nine Mile Point, thus the exception will be implemented consistently throughout CGG.

B.4 Procurement Control

16. For NQA-1-1994 Supplement 4S-1, Section 2.3, which requires procurement documents to require a quality program that complies with NQA-1, CGG may apply other nationally recognized and NRC endorsed quality standards, such as N45.2 or 10CFR50 Appendix B, as appropriate to the circumstances of the procurement.

Basis

This exception was based on the 2005 NMC fleet QATR submittal; NMC based it on a previous Palisades exception. Nuclear Management Company used this exception to establish alternative standards on which to base procurement documents. For existing long-term plant purchases that have imposed ANSI N45.2, or other NRC endorsed quality standards, that can be shown to be equivalent to NQA-1, CGG is not required to change the procurement document. For new procurement documents, CGG will specify the requirements of NQA-1 or Appendix B to 10 CFR Part 50. However, CGG may accept vendors implementing another NRC endorsed standard that has shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50. This alternative is acceptable because we continue to meet the requirements of 10 CFR 50, Appendix B.

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17. For NQA-1-1994 Supplement 4S-1 and Supplement 7S-1, CGG will use the guidance contained in Generic Letters 91-05 and 89-02/EPRI NP-5652 to procure commercial grade items in lieu of these requirements.

Basis

The standard NQA-1-1994 does not address commercial grade dedication adequately, therefore an exception to NQA-1-1994 Supplements 4S-1 and 7S-1 is needed. The NRC staff conditionally endorsed EPRI NP-5652, "Guideline for the Utilization of Commercial Grade Items in Nuclear Safety Related Applications (NCIG-07)," in Generic Letter 89-02, "Actions to Improve the Detection of Counterfeit and Fraudulently Marketed Products." This alternative is acceptable for CGG to assure the quality of procured vendor products.

18. NQA-1-1994 Supplement 7S-1, Section 8.1, documentary evidence that items conform to procurement requirements need not be available at the site prior to item installation, but will be available at the site prior to placing reliance on the item for its intended safety function.

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This alternative is acceptable for CGG because it still ensures that safety-related equipment will meet 10 CFR 50, Appendix B requirements for control of purchased items prior to their being made operable.

19. NQA-1-1994 Supplement 7S-1 Paragraph 8.2.4 states "...post-installation test requirements and acceptance documentation shall be mutually established by the Purchaser and Supplier." In exercising ultimate responsibility for its QA Program, CGG establishes post-installation test requirements, giving due consideration to supplier recommendations.

Basis

NQA-1-1994 Supplement 7S-1 Paragraph 8.2.4 addresses post-installation testing as a method of acceptance of an item or service only. On the relatively rare occasion of using this method of acceptance it would typically be combined with one or more of the other methods discussed in Section 8.2 of Supplement 7S-1. (It should be noted that cases of acceptance of commercial grade items for safety-related applications by means of post-installation testing may be more common, however dedication activities are not included in this section of Supplement 7S-1.)

This alternative is consistent with the provisions approved by the NRC on December 31, 1985 with Revision 1 to the Niagara Mohawk Power Corporation Quality Assurance Topical Report, NMPC-QATR-1. The basis for this alternative was to clarify that Niagara Mohawk Power Corporation is ultimately responsible for the activities performed at the plants, including acceptance of items and services. This alternative was

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originally related to the 1983 edition of NQA-1. Similar wording is contained in NQA-1-1994.

This exception is already being implemented at Nine Mile Point. The exception is acceptable for Calvert Cliffs and Ginna because: 1) all CGG sites share the same procurement process, and 2) CGG is ultimately responsible for the activities performed at the plants, including acceptance of items and services. This exception does not eliminate the participation of the supplier in developing post-installation test requirements and acceptance documents. Rather this exception only clarifies that the final responsibility for the QA Program resides with CGG.

B.7 Handling, Storage, and Shipping

20. This alternative applies to Nine Mile Point Nuclear Station (NMPNS). NMPNS commits to ANSI/ASME NQA-2-1983 Part 2.2, "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants," for nuclear safety-related activities pertaining directly to permanent plant modifications only. NQA-2-1983 Section 7.1 refers to NQA-2-1983 Part 2.15 for requirements related to handling of items. The scope of Part 2.15 includes hoisting, rigging and transporting of items for nuclear power plants. This scope exceeds the scope of the NRC's original endorsement of ANSI N45.2.2 in Regulatory Guide 1.38, and establishes requirements for which there is no NRC regulatory position. In lieu of compliance with Part 2.15, NMPNS is committed to the requirements of applicable heavy load reports for Nine Mile Point Units 1 and 2 that have been approved by the NRC. Unit 2's report is a part of the SAR (Appendix 9C). Unit 1's is a separate report.

Basis

This alternative was taken from Nine Mile Point Nuclear Station's Quality Assurance Program Topical Report, Revision 18. This alternative was originally related to NQA-1-1983 and was approved by the NRC on 12/31/1985 with revision 1 to Niagara Mohawk Power Corporation QA Topical Report, NMPC-QATR-1.

This exception is acceptable because it continues a pre-approved NRC exception previously granted to Nine Mile Point Nuclear Station. It does not extend the exception to other CGG sites.

21. In lieu of the five-level zone designation in NQA-1-1994 Subpart 2.3, CGG may base its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are effected through procedures or instructions. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible.

Basis

The five-level zone designation requirement in Subpart 2.3 is one method of applying adequate housekeeping controls. Control over housekeeping activities can also be established by developing processes and procedures based on a consideration of what is necessary and appropriate for the activity involved. The controls can be implemented

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through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions can make use of standard janitorial and work practices to the extent possible.

This exception was based on the 2005 NMC fleet QATR submittal. Nuclear Management Company based it on a previous Palisades exception. This alternative was approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. A similar exception was approved for Dominion by the NRC in "Approval of Dominion Nuclear Connecticut and Virginia Electric and Power Company Quality Assurance Program Description Topical Report for Millstone, Units 1, 2 & 3, North Anna, Units 1 & 2, and Surry, Units 1&2, dated September 9, 2005.

In establishing the basis for their exception, NMC noted:

"NMC bases its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are effected through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible."

In establishing the basis for their exception, Dominion noted:

"The Company may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control required by the subpart. This will include as a minimum documented cleanliness inspections, which will be performed prior to system closure. As necessary, (e.g., the size of the opening would permit entry of the tools being used) control of personnel, tools, equipment, and supplies will be established when major portions of the reactor system are opened for inspection, maintenance, or repair. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities."

Similar to NMC and Dominion, CGG may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control to that required by the subpart. In implementing this exception, CGG will address the same considerations, controls, and factors used by Dominion and NMC. This exception is acceptable for Ginna, Calvert Cliffs and Nine Mile Point because it provides an equivalent level of control over housekeeping activities.

B.15 Records

22. NQA-1-1994 Supplement 17S-1, section 4.2(b) requires records to be firmly attached in binders or placed in folders or envelopes for storage in steel file cabinets or on shelving

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in containers. For hard-copy records maintained by CGG, the records are suitably stored in steel file cabinets or on shelving in containers, except that methods other than binders, folders or envelopes may be used to organize the records for storage.

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This alternative is acceptable for CGG as it still ensures adequate protection of records and meets the requirements of 10 CFR 50, Appendix B.

23. In lieu of the storage facility requirements of NQA-1-1994 Supplement 17S-1 Section 4.4, CGG allows the following alternative storage requirements for organizations other than the records management organization. Organizations that originate records and do not transfer them to the records management within 30 days of completion shall establish one of the following three controls as alternatives to the requirements specified for the records management organization:
- a) Duplicate Storage - Either 1 or 2.
 1. Within 30 days of completion of a record, a duplicate record file shall be established. This activity shall be controlled by procedures which provide for the following: (a) Assignment of responsibility for records; (b) Description of storage area; (c) Description of filing system; (d) An index of the filing system; (e) Rules governing access to and control of files; (f) Methods for maintaining control of and accountability for records removed from the file; (g) Method for filing supplemental information and disposing of superseded or obsolete records; (h) Method for preserving records to prevent deterioration; (i) Method for maintaining specially processed records that are sensitive to light, pressure, or temperature; (j) Transfer of duplicates to the records management organization within two years of completion of records.
 2. Make arrangements with at least one other department that receives a copy of each document to subject this other copy to the controls specified above.
 - b) Fire-resistant Building Storage - Records shall be stored in steel cabinets located in a fire-resistant building or a non-combustible building with a fire suppression system. The procedural controls defined for duplicate storage shall be applied. Constellation Generation Group defines a fire-resistant building as follows: A facility constructed to resist the initiation or spreading of fire; non-combustible and/or fire-suppressive materials used; building certified as fire-resistant by a person who specializes in the technical field of fire prevention and fire extinguishing.
 - c. Non-fire-resistant Building Storage - Within non-fire-resistant facilities, records shall be stored in UL one-hour-minimum fire-rated storage cabinets and be subject to the procedural controls defined for duplicate storage.

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Basis

This alternative was taken from Calvert Cliffs Nuclear Power Plant's Quality Assurance Policy, Revision 59. This alternative was originally related to ANSI N45.2.9-1976 and has been a part of Calvert Cliffs QA Policy since Revision 2, dated March 4, 1974.

This exception is based on an existing Calvert Cliffs exception for alternative storage location requirements. The alternative is acceptable for CGG because it provides equivalent storage requirements to NQA-1-1994 and continues to meet the storage requirements of 10 CFR 50, Appendix B.

24. This alternative applies to Calvert Cliffs Nuclear Power Plant. In lieu of the reinforced concrete, concrete block, masonry, or equal construction requirements of NQA-1-1994 Supplement 17S-1, Section 4.4.1(a), the records vault is entirely enveloped by a structurally sound, fire resistive building. The vault rests on a reinforced slab on grade and its walls extend fully to the underside of the structural deck. The walls of the vault are constructed of gypsum wallboard on metal studs per Underwriters Laboratory Test Number U412, assuring the equivalent of 2-hour fire resistant construction. This is equal construction to concrete block in terms of fire protection. The walls carry no structural load; hence, they provide equivalent structural integrity to that needed of concrete block. Supplement 17S-1 Section 4.4.1(b) requires floor and roof drainage control. If a floor drain is provided, a check valve (or equal) shall be included. In lieu of this requirement, the vault is contained within an environmentally protected building. As such, it has no roof, or need for floor drain.

Basis

These responses have been forwarded to the NRC by Calvert Cliffs' letter dated 02/11/83 from Robert G. Nichols, Sr. Facilities Project Administrator, Real Estate and Office Services Department, to Terry L. Harpster, Chief QA Branch, Division of QA, Safeguards and Inspection Programs, IE, USNRC. These responses have also been accepted by the NRC in their letter dated 04/22/83 from Walter P. Haass, Deputy Chief, QA Branch, Division of Quality Assurance, Safeguards, and Inspections Programs, Office of Inspection and Enforcement.

This exception is acceptable because it continues a pre-approved NRC exception previously granted to Calvert Cliffs Nuclear Power Plant. It does not extend the exception to other CGG sites.

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A.5 Personnel Training and Qualification

1. For NQA-1-1994 Supplement 2S-1: Inspections, examinations or tests may be performed by individuals in the same organization as that which performed the work, provided that (a) the qualifications of the inspector for an activity are the same as the minimum qualifications for persons performing the activity, (b) the work is within the skills of personnel and/or is addressed by procedures, and (c) if work involves breaching a pressure-retaining item, the quality of the work can be demonstrated through a functional test. When a, b and c are not met, inspections, examinations or tests are carried out by individuals certified in accordance with Supplement 2S-1. Individuals performing visual inspections required by the ASME Boiler and Pressure Vessel Code are qualified and certified according to Code requirements.

Basis

The purpose of the exception is to permit line personnel, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception addresses the training and qualification required of these individuals, and the conditions under which they can conduct these activities. Complementary to this exception is an exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel (See discussion for Exception 2). The exception to Non Mandatory Appendix 2A-1 applies to the same personnel as those covered by the exception to Supplement 2S-1; since these personnel are trained and qualified to perform the activities as specified under this exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This exception to Supplement 2S-1 will be implemented through training for personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities that are in the same organization as that which performed the work. Constellation Generation Group will apply this exception only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The implementation of this exception will ensure that (1) the same minimum level of qualification is required as for those who performed the work, (2) the personnel will be required to have the necessary skills and/or have the verification requirements specified in procedures, and (3) where the work involves the breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The inspection planning process, performed by personnel qualified in accordance with CGG's commitment to NQA-1-1994, Supplement 2S-1 and Appendix 2A-1, takes the above three factors into account by establishing who will be responsible for performing the inspection. If the above three factors cannot be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

The alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills necessary to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training- based training program that meets 10 CFR 50.120.

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This exception was based on the 2005 Nuclear Management Company (NMC) fleet QATR submittal; NMC based it on a previous Palisades exception. This alternative is used by NMC to describe alternative training methods if it implemented line performance of quality control inspections. Constellation Generation Group will also apply it only to line personnel performing quality control inspections. It does not apply to quality assurance personnel. The qualification requirements for this alternative are documented in the basis for the NMC Quality Assurance Topical Report (QATR) Exception A.5 for NQA-1-1994, Supplement 2S-1 in Enclosure 3 of the NMC letter dated March 31, 2003 (ML033070161). The approval for this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255, dated February 27, 1992. The basis for the NMC alternative is that (1) the same level of qualification is required as for the individual who performed the work, (2) the personnel will be required to have the necessary skills and/or the verification requirements will be specified in the procedures/instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of quality verification inspections and tests.

This exception is acceptable for CGG because the basis for the CGG exception is equal to that indicated in the NMC alternative.

2. In lieu of being certified as Level I, II or III in accordance with Non-mandatory Appendix 2A-1 of NQA-1-1994, personnel performing operations phase independent quality verification inspections, examinations, measurements, or tests on material products or activities, that are in the same organization as that which performed the work, will be required to possess the same minimum level of qualification as that required for performing the task being verified. The verification shall be within the skills of these personnel and/or is addressed by procedures. These individuals will not be responsible for the planning of quality verification inspections and tests (i.e. establishing hold points and acceptance criteria in procedures, or determining who will be responsible for performing the inspections), evaluating inspection training programs, or certifying inspection personnel.

Basis

The purpose of the exception is to allow CGG line personnel at Nine Mile Point, Ginna and Calvert Cliffs who perform inspections and are in the same organization as that which performed the work, are qualified in an accredited systematic approach to training-based training program that meets 10 CFR 50.120, have the same level of qualification as the individual performing the task, have the necessary skills, and have the verification requirements specified in procedures, to be exempt from being certified Level I, II, or III as required in NQA-1-1994 Non Mandatory Appendix 2A-1. Complementary to this exception is an exception to NQA-1-1994 Supplement 2S-1, regarding alternative qualifications for inspectors (See discussion for Exception 1). The purpose of the exception to Supplement 2S-1 is to permit line personnel, who are in the same organization as that which performed the work, to conduct verification inspections, examinations, measurements, or tests on material products or activities. This exception to Non Mandatory Appendix 2A-1, regarding the three levels of qualification/certification of inspection and test personnel, applies to the same personnel as those covered by the exception to Supplement 2S-1; since these personnel are trained, qualified, and perform

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the activities as specified under the 2S-1 exception, they do not need to be certified to the three levels contained in Non Mandatory Appendix 2A-1.

This alternative meets the requirements of 10 CFR Part 50, Appendix B, Criterion II, by requiring training and qualification of personnel that assures suitable proficiency is achieved and maintained in the skills needed to perform quality verification inspections and tests. The individuals qualified in accordance with this alternative participate in an accredited systematic approach to training-based training program that meets 10 CFR 50.120.

This alternative is similar to the qualification requirements documented in the basis for the Nuclear Management Company Quality Assurance Topical Report (NMC QATR) for a related Exception to NQA-1-1994, Supplement 2S-1. The approval of this alternative was originally addressed in a letter from NRC Region III to Consumers Power Company, Docket Nos. 50-155 and 50-255 dated February 27, 1992. The basis for the Constellation change for Nine Mile Point, Ginna, and Calvert Cliffs is equal to that indicated in the NMC alternative in that (1) the same level of qualification is required, (2) the personnel will be required to have the necessary skills and/or the verification requirements will be specified in the procedures/ instructions, and (3) where the work involves breaching of a pressure boundary, additional assurance of the quality of work can be obtained through a functional test. The individuals qualified under this alternative will not be involved in the planning of Quality Verification inspections and tests. If the above factors can not be met, the inspection responsibility would be assigned to personnel qualified in accordance with the commitment to NQA-1-1994.

This exception is acceptable for CGG because the accredited systematic approach to training-based training program evaluates and qualifies individuals to tasks, and determines minimum requirements relating to education, skills and experience, and the inspection criteria will be developed by and specified in written instructions by an individual qualified to NQA-1-1994 Appendix 2A-1.

3. In lieu of NQA-1-1994 Supplement 2S-2, CGG will follow the applicable standard cited in the latest version(s) of Sections III and XI of the ASME Boiler and Pressure Vessel Code approved by the NRC for use at CGG sites for qualification of nondestructive examination personnel.

Basis

The Safety Analysis Report for each of the CGG plants specifies the ASME Code Editions/Addenda to which each of the plants comply. The ASME Code, Sections III and XI, identifies specific editions of SNT-TC-1a or CP-189; different Code editions/addenda may identify different editions of SNT-TC-1a/CP-189.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This exception is acceptable for CGG because it ensures that NRC approved qualification requirements for nondestructive examination (NDE) personnel are imposed while providing flexibility for each plant to continue to use their current requirements. The exception also assures such requirements are consistent with current industry practice. It should be noted that CGG commits to compliance with Regulatory Guide 1.28, Revision

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3 which does not contain specific guidance on the use of SNT-TC-1A/CP-189. This exception will be implemented at Calvert Cliffs, Nine Mile Point and Ginna.

4. For NQA-1-1994 Supplement 2S-3: The requirement that prospective Lead Auditors have participated in a minimum of five (5) audits in the previous three (3) years is replaced by the following:

“The prospective lead auditor shall demonstrate his/her ability to effectively lead and implement the audit process according to Section C.2 of the QATR, and to effectively organize and report results, including participation in at least one independent audit within the year preceding the date of qualification. Constellation Generation Group describes this process in written procedures and shall evaluate and document the results of the demonstration.”

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, “Change to the Quality Assurance Program, Quality Assurance Program Consolidation,” dated March 24, 2005 for Nuclear Management Company.

As described in the “Revised Submittal of Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant” dated December 21, 1998, the revised requirements for certification of lead auditors are consistent with the guidance provided by the NRC in a letter “Review of Nuclear Energy Institute Proposed Improvements to QA Programs,” dated October 24, 1996. The revised requirement meets the intent of Section 3.3 of NQA-1-1994 to have the prospective lead auditor demonstrate the ability to effectively implement the audit process and to lead an audit team. Since the revised requirements meet the intent of the original requirement and the NRC has proposed this approach as an acceptable alternative, this change does not reduce the scope of the quality assurance program.

The NRC notes in their Safety Evaluation Report to R.E. Ginna Nuclear Power Plant, dated April 6, 1999, that in an October 24, 1996 letter to the Nuclear Energy Institute, the NRC staff provided its position with regard to acceptable industry proposed alternatives on quality assurance processes for qualifying auditors and for conducting annual evaluations of suppliers. Rochester Gas and Electric’s proposed alternative for certifying lead auditors, as described was consistent with the staff’s position in the cited letter. The inclusion in the CGG fleet QATR extends the exception to Calvert Cliffs and Nine Mile and the exception will be implemented consistently throughout CGG.

5. NQA-1-1994, Supplement 2S-1 and 2S-3: A grace period of 90 days may be applied to the performance of annual evaluations of inspection, examination and testing personnel qualifications defined in Supplement 2S-1, and annual lead auditor recertifications described in Supplement 2S-3. The grace period does not allow the “clock” for a particular activity to be reset forward. However, the “clock” for an activity is reset backwards by performing the activity early.

Basis

Supplement 2S-1 requires that the performance of inspection and test personnel be reevaluated at periodic intervals not to exceed 3 years. In addition, the supplement specifies that any person who has not performed inspection or testing activities in his

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qualified area for a period of 1 year shall be reevaluated. Supplement 2S-3 requires annual re-evaluation of lead auditor qualifications. Neither supplement addresses any grace period for the activities, thereby defaulting to a literal interpretation of annual, every three years, etc. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, "Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant" dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backwards when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point for lead auditors. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

A.7.3 Regulatory Commitments

6. Regulatory Position C of Regulatory Guide 1.28, Revision 3, endorses the basic and supplementary requirements of ANSI/ASME NQA-1-1983 and the ANSI/ASME NQA-1a-1983 Addenda. In place of the specific edition and addenda of NQA-1 addressed in the Regulatory Guide, CGG commits to implement the requirements of NQA-1-1994 Part I.

Basis

We are adopting ASME NQA-1-1994 Part 1 consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation "Proposed Change to the Quality Assurance Program, Quality Assurance Program Consolidation, Exelon Generation Company, LLC and Amergen Energy Company, LLC," dated December 24, 2002. CGG's conformance to NQA-1-1994 Part I is documented in CGG QATR.

In the Code of Federal Regulations, 10 CFR 50.54(a)(3)(i) allows "The use of a QA standard approved by the NRC which is more recent than the standard in the licensee's current QA program at the time of the change." Although the NRC has not yet specifically endorsed NQA-1-1994 in their regulatory guides, Regulatory Guide 1.28, Revision 3, dated August 1985, endorsed NQA-1-1983. Correspondence by the NRC and related NRC Safety Evaluation Report (SER) dated December 24, 2002, for approval of Revision 70 of QATR EGC-1A, for EXELON/AMERGEN plants, subsection 3.2.1, determined that the requirements of the 1983 and 1994 editions of NQA-1 are equivalent. Based on the related NRC safety evaluation, CGG's use of NQA-1-1994 is consistent with 10 CFR 50.54(a)(3)(ii), which states, "The use of a quality assurance alternative or exception approved by an NRC safety evaluation, provided that the bases of the NRC

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approval are applicable to the licensee's facility" is not a reduction in commitment. EXELON has submitted a comparison of NQA-1-1983 with NQA-1-1994, used as part of the basis for the NRC approval, which applies to CGG's QATR. In addition, CGG prepared a table to compare the ANSI N18.7 standard to NQA-1-1994 and the CGG QATR (Attachment 3 to the QATR submittal).

7. Regulatory Position C.1 of Regulatory Guide 1.28. After further reviews associated with this item, CGG has determined that this alternative is not needed and will delete it from its submittal. Nine Mile Point, Ginna, and Calvert Cliffs will meet the requirements of NQA-1-1994 Non-Mandatory Appendix 2A-1 for their Quality Assurance organizations.
8. The guidance of Regulatory Guide 1.28, Revision 3, Regulatory Position C.3.2, regarding external audits will also be implemented in the operational phase. Constellation Generation Group complies with Regulatory Position C.3.2 with the exception that for Regulatory Position C.3.2.2, CGG may review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). Additionally, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action. A grace period of 90 days may be applied to the performance of triennial supplier audits described in Regulatory Position C.3.2.1. The grace period does not allow the "clock" for a particular activity to be reset forward. However, the "clock" for an activity is reset backwards by performing the activity early.

Basis

The exception to Regulatory Position C.3.2.1 involves a 90 day grace period for the performance of supplier triennial audits. This exception is analogous to provisions in Technical Specifications that allow a 25% grace period for the performance of periodic surveillances. The proposed grace period is intended to provide flexibility in scheduling activities. Since the clock for an activity cannot be reset forward, the average frequency at which an activity is performed will remain the same.

The exception to Position C.3.2.1 was originally an exception to the provisions of Regulatory Guide 1.144, Revision 1, and was approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation "Proposed Revision 25 to the Rochester Gas and Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant," dated July 22, 1998. The approval allowed a 90-day grace period for supplier audits. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backwards when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same. This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will remain the same. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

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The exception to Regulatory Position C.3.2.2 provides for a documented ongoing evaluation of the supplier's performance, rather than an annual evaluation. The ongoing evaluation of suppliers takes into account the review of supplier furnished documents, such as certificates of conformance, non-conformance notices, and corrective actions, as well as evaluating the results of previous source surveillances/verifications, audits/surveys, and receiving inspections. Constellation Generation Group also reviews operating experience information pertaining to equipment failures and evaluates the results of audits from other sources (e.g. NUPIC audits) for their effect on supplier qualification status. As described in procedures at all CGG plants, the results of these evaluations are reviewed and appropriate corrective action taken. Furthermore, adverse findings resulting from these evaluations are periodically reviewed to determine if, in the aggregate, they result in a significant condition adverse to quality. Additionally, the results of these evaluations are used to provide input to support supplier audit activities conducted by CGG or third party auditing organizations.

If no items are received from a vendor in the course of a year, CGG will document a review of industry activity using the operating experience information from the INPO website, the NUPIC database, Part 21 Notifications, and/or contact the respective vendor to inquire on any QA program changes. Vendors may be removed from the Approved Vendor's List either because of re-evaluation, which resulted in removal, or due to inactivity.

The exception to Position C.3.2.2 is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. In establishing their exception NMC stated that:

"Industry programs, such as those applied by ASME, NUPIC, or other established utility groups, are used as input or the basis for supplier qualification whenever appropriate."

and

"NMC will review the information described therein as it becomes available through its ongoing receipt inspection, operating experience, and supplier evaluation programs, in lieu of performing a specific evaluation on an annual basis. The results of the reviews are promptly considered for effect on a supplier's continued qualification and adjustments made as necessary (including corrective actions, adjustments of supplier audit plans, and input to third party auditing entities, as warranted). In addition, results are reviewed periodically to determine if, as a whole, they constitute a significant condition adverse to quality requiring additional action."

This exception is acceptable for CGG because CGG has taken an approach to the ongoing evaluation of supplier performance consistent with the NMC exception. This exception will not reduce the effectiveness of the supplier evaluation program, as CGG will implement all the applicable provisions for an ongoing evaluation process contained in the previously approved NMC exception. This exception applies to Nine Mile Point, Ginna, and Calvert Cliffs.

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9. In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant instrumentation that contain the date of calibration and identity of person that performed the calibration. Calibrations of instruments are scheduled and tracked by a computer database.

Basis

In lieu of the requirements of the last paragraph of ANSI N45.2.4-1972 Section 6.2.1, the calibration program at CGG does not use calibration stickers on installed plant instrumentation that contain the date of calibration and identify the person that performed the calibration. Instead calibrations of instruments are scheduled and tracked by a computer database. The information in the database insures the calibration information meets the requirements of the standard and is correlated with the equipment by unique identification numbers on the equipment.

This alternative is consistent with the provision approved by the NRC in Safety Evaluation Report "Entergy Operations, Inc. Quality Assurance Program Consolidation," dated November 6, 1998. The intent of the alternative was to allow other methods of identifying equipment with calibration information other than by tagging. The staff recognized approved alternative methods, such as using a calibration log that is correlated with the equipment by unique identification numbers on the equipment. The staff found that alternatives to tagging equipment with calibration information are acceptable and that the requirements of 10 CFR 50, Appendix B continue to be met.

This alternative is acceptable for CGG because the currently approved quality assurance programs for Calvert Cliffs and Nine Mile Point already incorporate the same alternatives and process as approved for NMC. The inclusion of this exception into the Fleet QATR extends the exception to Ginna and is acceptable because it will be implemented with the same controls and process as currently in place at Calvert Cliffs and Nine Mile Point.

10. a. NQA-1-1994 Part I contains quality assurance requirements equivalent to those of ANSI N18.7-1976/ANS-3.2, and CGG has included in this QATR the remaining "administrative controls" elements from ANSI N18.7-1976/ANS-3.2. Therefore, CGG does not commit to compliance with the requirements of ANSI N-18.7-1976/ANS-3.2 as endorsed by Regulatory Guide 1.33, Revision 2, Regulatory Position C.
- c. Constellation Generation Group's commitment to the applicable regulatory guides and associated standards listed in Regulatory Position C.2 of Regulatory Guide 1.33, Revision 2, is addressed within the CGG QATR. A number of these Regulatory Guides and standards have been incorporated into NQA-1-1994 Part I.
- f. In lieu of compliance with Regulatory Position C.5 of Regulatory Guide 1.33, Revision 2, CGG has established appropriate equivalent requirements within this QATR.

Basis

Constellation Generation Group recognizes that NRC Regulatory Guide 1.33, "Quality Assurance Program Requirements (Operations)" endorses ANSI Standard N18.7, "Administrative Controls and Quality Assurance for the Operational Phase of Nuclear

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Power Plants”. The CGG plants have current commitments to this standard. We have concluded that the QATR, combined with our commitment to Regulatory Guide 1.28, provides an acceptable alternative to Regulatory Guide 1.33 and ANSI N18.7-1976, in that the QATR provides quality assurance and administrative control requirements consistent with that guidance, as well as a quality assurance program that meets 10 CFR 50, Appendix B. Attachment 3 to the QATR submittal is a table illustrating that the quality assurance requirements of N18.7-1976 are addressed through our commitment to NQA-1-1994, and the administrative controls of N18.7 are addressed by inclusion of equivalent requirements within the text of the QATR.

11. In lieu of the six and twelve month audit frequencies specified in Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, CGG audits selected aspects of operational phase activities at a frequency commensurate with their safety significance in such a manner as to assure an audit of all safety-related functions is completed within a period of two years. (except as otherwise required in regulations). Constellation Generation Group’s audit program includes the elements listed in Regulatory Position C.4. In addition, a 90-day grace period may be applied to the 24-month frequency for performing internal audits. The grace period does not allow the “clock” for a particular activity to be reset forward. However, the “clock” for an activity is reset backwards by performing the activity early.

Basis

Regarding biennial internal audits, this exception is acceptable because it continues similar exceptions previously approved by the NRC for Calvert Cliffs, Nine Mile Point and Ginna. Each CGG site has a current exception to the six and twelve month audit frequencies specified in Regulatory Position C.4 of Regulatory Guide 1.33. Ginna’s exception was approved by the NRC on March 22, 1995, under a 10 CFR 50.54(a) submittal. Calvert Cliff’s exception was included in their October 18, 1996 submittal to the NRC of Revision 47 of the QA Policy document. Nine Mile Point’s exception was included in their October 24, 2005 submittal to the NRC of Revision 19 to the Nine Mile Point Unit 1 UFSAR.

Regarding the 90 day grace period, Regulatory Position C.4 of Regulatory Guide 1.33, Revision 2, requires that the audits of all safety-related functions are completed within a period of 2 years, with certain clarifications. The regulatory guide does not address any grace period for the audits, thereby defaulting to a literal interpretation of every two years. The proposed grace period is intended to provide flexibility in scheduling activities.

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation by the Office of Nuclear Reactor Regulation, “Proposed Revision 25 to the Rochester Gas & Electric Corporation Quality Assurance Program for Station Operation, R.E. Ginna Nuclear Power Plant,” dated July 22, 1998. The basis for the Ginna alternative was that the grace period allows flexibility in scheduling activities and does not permit the clock for an activity to be reset forward, though it does specify that the clock will be reset backward when an activity is performed early. Since the clock cannot be reset forward, the average frequency at which an activity is performed will remain the same.

This exception is acceptable for CGG because it does not permit the clock for an activity to be reset forward, hence the average frequency at which an activity is performed will

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remain the same. This is analogous to provisions in Technical Specifications which allow the use of a 25% grace period for the performance of periodic surveillances at all three sites. This exception is already being implemented at Ginna and Nine Mile Point. The inclusion in the CGG Fleet QATR extends the exception to Calvert Cliffs and the exception will be implemented consistently throughout CGG.

12. CGG substitutes NQA-1-1994, Subpart 2.3 for N45.2.3 in its commitment to Regulatory Guide 1.39, September 1977. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.3 includes commitment to those standards to the extent necessary to implement Subpart 2.3 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the provisions of Section 3.2.3 of N45.2.3 are not part of the Regulatory endorsement. As NQA-1, Subpart 2.3, Section 3.2.3 has the same wording as N45.2.3; the Regulatory Position is applicable and will be followed in CGG's implementation of Subpart 2.3. Regulatory Position C.3 indicates that the endorsed standard is "applicable for housekeeping activities during the operations phase that are comparable to those occurring during construction." This is addressed in section B.7 of the QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.3.

Basis

This exception was based on the 2005 Dominion fleet QATR submittal. Dominion used this exception to establish an alternative program for housekeeping requirements. This is acceptable for CGG because the NRC staff found that wording of NQA-1-1994 Subpart 2.3 contains equivalent requirements to Regulatory Guide 1.39, September 1977, and ANSI N45.2.3-1973. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities.

- 13 CGG substitutes NQA-1-1994, Subpart 2.8 for N45.2.8 in its commitment to Regulatory Guide 1.116, May 1977. As noted in Regulatory Position C.1, other industry standards may be referenced; the commitment in this QATR to NQA-1, Subpart 2.8 includes commitment to those standards to the extent necessary to implement Subpart 2.8 requirements. If NRC guidance applies to those referenced standards, it is followed. Regulatory Position C.2 indicates that the endorsed standard should be "followed for those applicable operations phase activities that are comparable to activities occurring during the construction phase." This is addressed in section B.12 of this QATR, which also establishes any necessary exceptions or alternatives to the provisions of Subpart 2.8.

Basis

CGG is adopting ASME NQA-1-1994 Subpart 2.8 consistent with the provisions approved by the NRC in Safety Evaluation of Proposed Change to the Quality Assurance Program, Quality Assurance Program Consolidation for Dominion Nuclear Connecticut, Inc. and Virginia Electric and Power Company, dated September 9, 2005. The NRC staff found that NQA-1-1994 Subpart 2.8 contains equivalent requirements to Regulatory Guide 1.116, May 1977, and ANSI N45.2.8-1975.

This alternative is acceptable based on providing an equivalent level of control over installation, inspection and testing of mechanical equipment and systems.

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14. CGG commits to Regulatory Guide 4.15, Revision 1, February 1979, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) – Effluent Streams and the Environment," Section C, with the following alternatives/exceptions:

- a. In lieu of plotting background parameters and setting predetermined control values for gamma spectroscopy instrumentation as described in Regulatory Position C.6.2, background results may be logged and evaluated to ensure the background does not bias reported results.
- b. The NRC's independent sampling and analysis program described in Regulatory Position C.6.3.2 may not be performed.
- c. In lieu of performing source check calibrations at least once per 18 months as described in Regulatory Position C.7, CGG may perform these calibrations at least once per refueling interval.

Basis

This exception is for Ginna, Nine Mile Point and Calvert Cliffs. In establishing a commitment to Regulatory Guide 4.15 in the QATR, CGG is taking three exceptions to the regulatory guide.

- a. In accordance with Regulatory Position C.6.2, CGG plots (i.e. graph paper) and trends backgrounds on all laboratory instrumentation with the exception that an alternate method may be used for gamma spectroscopy. In this case, an alternate but equally effective method may be implemented: Gamma isotopic backgrounds are counted routinely and all nuclides are checked for the presence of contamination (i.e. a peak) to ensure each background for each nuclide does not impact any analysis result. If contamination is detected (i.e. a peak is identified), remedial action is taken. Adequacy and accuracy of results are checked in an inter-laboratory test program. Inter-laboratory and intra-laboratory test data are carefully evaluated to determine bias. This method performs the same function as graphing the data without the need to actually plot the data on graph paper. This reduces an unnecessary administrative burden without loss of quality relative to identification of background contamination.
- b. The exception to the NRC's independent sampling and analysis program (Regulatory Position C.6.3.2) is based on the NRC having discontinued their Confirmatory Measurements Program.
- c. Regulatory Position C.7, "Quality Control for Continuous Effluent Monitoring Systems," states that sources that have been related to initial calibration should be used to check this initial calibration at least once per 18 months (normally during refueling outages). Calvert Cliffs and Nine Mile Point currently have 24 month refueling cycles. This change of frequency allows source check calibrations consistent with Technical Specification amendments such as the "Twenty Four Month Cycle Technical Specification Amendments for Calvert Cliffs Nuclear Power Plants Units 1 and 2" issued November 3, 1987 in a Safety Evaluation by the Office of Nuclear Reactor Regulation. This alternative remains consistent with the intent of this Regulatory Guide: specifically, to periodically perform source check calibrations.

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15. Generic Letter 82-21, "Technical Specification for Fire Protection Audits." In lieu of the 12-month, 24-month, and 36-month fire protection and loss prevention audits, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures. The biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant.

Basis

In lieu of the 12, 24, and 36 month fire protection audits described in Generic Letter 82-21, CGG will combine the scope of the three audits into one by performing a biennial audit of the facility fire protection program and implementing procedures.

This exception was based on previously approved Ginna and Calvert Cliffs submittals. This exception was an alternative reviewed and accepted by the NRC staff for Revision 21 of Ginna's QAPSO in the "10 CFR 50.54 Quality Assurance Program Change Review" dated March 22, 1995. The annual fire protection audit requirement was incorporated into the biennial fire protection audit at Calvert Cliffs in Revision 43 to the QAP. Calvert Cliffs' revised QAP was reviewed and accepted by the NRC staff in the "10 CFR 50.54 Quality Assurance Program Change Review" dated September 25, 1996. This exception is already being implemented at Ginna and Calvert Cliffs.

This exception is acceptable for implementation by CGG as the biennial audit includes all the required elements of the 12, 24, and 36 month audits, including the use of an outside qualified fire protection consultant. This exception is already being implemented at Ginna and Calvert Cliffs. The inclusion in the CGG Fleet QATR extends the exception to Nine Mile Point, thus the exception will be implemented consistently throughout CGG.

B.4 Procurement Control

16. For NQA-1-1994 Supplement 4S-1, Section 2.3, which requires procurement documents to require a quality program that complies with NQA-1, CGG may apply other nationally recognized and NRC endorsed quality standards, such as N45.2 or 10CFR50 Appendix B, as appropriate to the circumstances of the procurement.

Basis

This exception was based on the 2005 NMC fleet QATR submittal; NMC based it on a previous Palisades exception. Nuclear Management Company used this exception to establish alternative standards on which to base procurement documents. For existing long-term plant purchases that have imposed ANSI N45.2, or other NRC endorsed quality standards, that can be shown to be equivalent to NQA-1, CGG is not required to change the procurement document. For new procurement documents, CGG will specify the requirements of NQA-1 or Appendix B to 10 CFR Part 50. However, CGG may accept vendors implementing another NRC endorsed standard that has shown to be equivalent to NQA-1 or Appendix B to 10 CFR Part 50. This alternative is acceptable because we continue to meet the requirements of 10 CFR 50, Appendix B.

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17. For NQA-1-1994 Supplement 4S-1 and Supplement 7S-1, CGG will use the guidance contained in Generic Letters 91-05 and 89-02/EPRI NP-5652 to procure commercial grade items in lieu of these requirements.

Basis

The standard NQA-1-1994 does not address commercial grade dedication adequately, therefore an exception to NQA-1-1994 Supplements 4S-1 and 7S-1 is needed. The NRC staff conditionally endorsed EPRI NP-5652, "Guideline for the Utilization of Commercial Grade Items in Nuclear Safety Related Applications (NCIG-07)," in Generic Letter 89-02, "Actions to Improve the Detection of Counterfeit and Fraudulently Marketed Products." This alternative is acceptable for CGG to assure the quality of procured vendor products.

18. NQA-1-1994 Supplement 7S-1, Section 8.1, documentary evidence that items conform to procurement requirements need not be available at the site prior to item installation, but will be available at the site prior to placing reliance on the item for its intended safety function.

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This alternative is acceptable for CGG because it still ensures that safety-related equipment will meet 10 CFR 50, Appendix B requirements for control of purchased items prior to their being made operable.

19. NQA-1-1994 Supplement 7S-1 Paragraph 8.2.4 states "...post-installation test requirements and acceptance documentation shall be mutually established by the Purchaser and Supplier." In exercising ultimate responsibility for its QA Program, CGG establishes post-installation test requirements, giving due consideration to supplier recommendations.

Basis

NQA-1-1994 Supplement 7S-1 Paragraph 8.2.4 addresses post-installation testing as a method of acceptance of an item or service only. On the relatively rare occasion of using this method of acceptance it would typically be combined with one or more of the other methods discussed in Section 8.2 of Supplement 7S-1. (It should be noted that cases of acceptance of commercial grade items for safety-related applications by means of post-installation testing may be more common, however dedication activities are not included in this section of Supplement 7S-1.)

This alternative is consistent with the provisions approved by the NRC on December 31, 1985 with Revision 1 to the Niagara Mohawk Power Corporation Quality Assurance Topical Report, NMPC-QATR-1. The basis for this alternative was to clarify that Niagara Mohawk Power Corporation is ultimately responsible for the activities performed at the plants, including acceptance of items and services. This alternative was

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originally related to the 1983 edition of NQA-1. Similar wording is contained in NQA-1-1994.

This exception is already being implemented at Nine Mile Point. The exception is acceptable for Calvert Cliffs and Ginna because: 1) all CGG sites share the same procurement process, and 2) CGG is ultimately responsible for the activities performed at the plants, including acceptance of items and services. This exception does not eliminate the participation of the supplier in developing post-installation test requirements and acceptance documents. Rather this exception only clarifies that the final responsibility for the QA Program resides with CGG.

B.7 Handling, Storage, and Shipping

20. This alternative applies to Nine Mile Point Nuclear Station (NMPNS). NMPNS commits to ANSI/ASME NQA-2-1983 Part 2.2, "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants," for nuclear safety-related activities pertaining directly to permanent plant modifications only. NQA-2-1983 Section 7.1 refers to NQA-2-1983 Part 2.15 for requirements related to handling of items. The scope of Part 2.15 includes hoisting, rigging and transporting of items for nuclear power plants. This scope exceeds the scope of the NRC's original endorsement of ANSI N45.2.2 in Regulatory Guide 1.38, and establishes requirements for which there is no NRC regulatory position. In lieu of compliance with Part 2.15, NMPNS is committed to the requirements of applicable heavy load reports for Nine Mile Point Units 1 and 2 that have been approved by the NRC. Unit 2's report is a part of the SAR (Appendix 9C). Unit 1's is a separate report.

Basis

This alternative was taken from Nine Mile Point Nuclear Station's Quality Assurance Program Topical Report, Revision 18. This alternative was originally related to NQA-1-1983 and was approved by the NRC on 12/31/1985 with revision 1 to Niagara Mohawk Power Corporation QA Topical Report, NMPC-QATR-1.

This exception is acceptable because it continues a pre-approved NRC exception previously granted to Nine Mile Point Nuclear Station. It does not extend the exception to other CGG sites.

21. In lieu of the five-level zone designation in NQA-1-1994 Subpart 2.3, CGG may base its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are effected through procedures or instructions. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible.

Basis

The five-level zone designation requirement in Subpart 2.3 is one method of applying adequate housekeeping controls. Control over housekeeping activities can also be established by developing processes and procedures based on a consideration of what is necessary and appropriate for the activity involved. The controls can be implemented

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through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions can make use of standard janitorial and work practices to the extent possible.

This exception was based on the 2005 NMC fleet QATR submittal. Nuclear Management Company based it on a previous Palisades exception. This alternative was approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company. A similar exception was approved for Dominion by the NRC in "Approval of Dominion Nuclear Connecticut and Virginia Electric and Power Company Quality Assurance Program Description Topical Report for Millstone, Units 1, 2 & 3, North Anna, Units 1 & 2, and Surry, Units 1&2, dated September 9, 2005.

In establishing the basis for their exception, NMC noted:

"NMC bases its control over housekeeping activities on a consideration of what is necessary and appropriate for the activity involved. The controls are effected through procedures or instructions which, in the case of maintenance or modification work, are developed on a case-by-case basis. Factors considered in developing the procedures and instructions include cleanliness control, personnel safety, fire prevention and protection, radiation control and security. The procedures and instructions make use of standard janitorial and work practices to the extent possible."

In establishing the basis for their exception, Dominion noted:

"The Company may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control required by the subpart. This will include as a minimum documented cleanliness inspections, which will be performed prior to system closure. As necessary, (e.g., the size of the opening would permit entry of the tools being used) control of personnel, tools, equipment, and supplies will be established when major portions of the reactor system are opened for inspection, maintenance, or repair. This alternative is acceptable based on providing an equivalent level of control over housekeeping activities."

Similar to NMC and Dominion, CGG may choose to not utilize the five-level zone designations, but will utilize work practices, as described in administrative controls, that provide an equivalent level of cleanliness control to that required by the subpart. In implementing this exception, CGG will address the same considerations, controls, and factors used by Dominion and NMC. This exception is acceptable for Ginna, Calvert Cliffs and Nine Mile Point because it provides an equivalent level of control over housekeeping activities.

B.15 Records

22. NQA-1-1994 Supplement 17S-1, section 4.2(b) requires records to be firmly attached in binders or placed in folders or envelopes for storage in steel file cabinets or on shelving

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in containers. For hard-copy records maintained by CGG, the records are suitably stored in steel file cabinets or on shelving in containers, except that methods other than binders, folders or envelopes may be used to organize the records for storage.

Basis

This alternative is consistent with the provisions approved by the NRC in Safety Evaluation Report by the Office of Nuclear Reactor Regulation, "Change to the Quality Assurance Program, Quality Assurance Program Consolidation," dated March 24, 2005 for Nuclear Management Company.

This alternative is acceptable for CGG as it still ensures adequate protection of records and meets the requirements of 10 CFR 50, Appendix B.

23. In lieu of the storage facility requirements of NQA-1-1994 Supplement 17S-1 Section 4.4, CGG allows the following alternative storage requirements for organizations other than the records management organization. Organizations that originate records and do not transfer them to the records management within 30 days of completion shall establish one of the following three controls as alternatives to the requirements specified for the records management organization:
- a) Duplicate Storage - Either 1 or 2.
 1. Within 30 days of completion of a record, a duplicate record file shall be established. This activity shall be controlled by procedures which provide for the following: (a) Assignment of responsibility for records; (b) Description of storage area; (c) Description of filing system; (d) An index of the filing system; (e) Rules governing access to and control of files; (f) Methods for maintaining control of and accountability for records removed from the file; (g) Method for filing supplemental information and disposing of superseded or obsolete records; (h) Method for preserving records to prevent deterioration; (i) Method for maintaining specially processed records that are sensitive to light, pressure, or temperature; (j) Transfer of duplicates to the records management organization within two years of completion of records.
 2. Make arrangements with at least one other department that receives a copy of each document to subject this other copy to the controls specified above.
 - b) Fire-resistant Building Storage - Records shall be stored in steel cabinets located in a fire-resistant building or a non-combustible building with a fire suppression system. The procedural controls defined for duplicate storage shall be applied. Constellation Generation Group defines a fire-resistant building as follows: A facility constructed to resist the initiation or spreading of fire; non-combustible and/or fire-suppressive materials used; building certified as fire-resistant by a person who specializes in the technical field of fire prevention and fire extinguishing.
 - c. Non-fire-resistant Building Storage - Within non-fire-resistant facilities, records shall be stored in UL one-hour-minimum fire-rated storage cabinets and be subject to the procedural controls defined for duplicate storage.

Attachment (4)

CGG QATR EXCEPTIONS/ALTERNATIVES

Basis

This alternative was taken from Calvert Cliffs Nuclear Power Plant's Quality Assurance Policy, Revision 59. This alternative was originally related to ANSI N45.2.9-1976 and has been a part of Calvert Cliffs QA Policy since Revision 2, dated March 4, 1974.

This exception is based on an existing Calvert Cliffs exception for alternative storage location requirements. The alternative is acceptable for CGG because it provides equivalent storage requirements to NQA-1-1994 and continues to meet the storage requirements of 10 CFR 50, Appendix B.

24. This alternative applies to Calvert Cliffs Nuclear Power Plant. In lieu of the reinforced concrete, concrete block, masonry, or equal construction requirements of NQA-1-1994 Supplement 17S-1, Section 4.4.1(a), the records vault is entirely enveloped by a structurally sound, fire resistive building. The vault rests on a reinforced slab on grade and its walls extend fully to the underside of the structural deck. The walls of the vault are constructed of gypsum wallboard on metal studs per Underwriters Laboratory Test Number U412, assuring the equivalent of 2-hour fire resistant construction. This is equal construction to concrete block in terms of fire protection. The walls carry no structural load; hence, they provide equivalent structural integrity to that needed of concrete block. Supplement 17S-1 Section 4.4.1(b) requires floor and roof drainage control. If a floor drain is provided, a check valve (or equal) shall be included. In lieu of this requirement, the vault is contained within an environmentally protected building. As such, it has no roof, or need for floor drain.

Basis

These responses have been forwarded to the NRC by Calvert Cliffs' letter dated 02/11/83 from Robert G. Nichols, Sr. Facilities Project Administrator, Real Estate and Office Services Department, to Terry L. Harpster, Chief QA Branch, Division of QA, Safeguards and Inspection Programs, IE, USNRC. These responses have also been accepted by the NRC in their letter dated 04/22/83 from Walter P. Haass, Deputy Chief, QA Branch, Division of Quality Assurance, Safeguards, and Inspections Programs, Office of Inspection and Enforcement.

This exception is acceptable because it continues a pre-approved NRC exception previously granted to Calvert Cliffs Nuclear Power Plant. It does not extend the exception to other CGG sites.