17.5 Quality Assurance Program Description

The Quality Assurance Plan (QAP) for the U.S. EPR is addressed in AREVA NP Topical Report ANP-10266A, Revision 1, "AREVA NP Inc. Quality Assurance Plan (QAP) for Design Certification of the U.S. EPR Topical Report", which has been approved by the NRC (Reference 1). As noted in the referenced topical report, the QAP is applicable to the design certification of the U.S. EPR. The QAP is based on the eighteen-point criteria of 10 CFR 50, Appendix B, and ANSI/ASME NQA-1-1994. Consistent with Section I of SRP Section 17.5, design certification does not include fabrication, erection, installation, or operations.

17.5.1 QA Program Responsibilities

The scope and responsibilities for the U.S. EPR QAP are addressed in the referenced topical report.

17.5.2 SRP Section 17.5 and the QA Program Description

As noted in Section 17.5.2 of Regulatory Guide 1.206, "The NRC staff revised the SRP to add the new Section 17.5, 'Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants.' This new SRP section addresses QAPD provisions for COL applicants. The NRC staff reviews and evaluates QAPDs in accordance with the applicable sections of the SRP. Section 17.5 of the SRP is the principal guidance for NRC reviews of a QAPD submitted by a COL applicant. A COL applicant may submit its QAPD in two phases. The first phase could apply to design, fabrication, construction, and testing QA activities, and the second phase could apply to operational QA activities. The requirements for the two phases are fully defined in SRP 17.5. Regardless of the approach, the NRC would review and evaluate QAPDs before issuing the COL. Chapter 17 of the FSAR should incorporate the QAPD (or QAPDs) by reference."

While the purpose of Regulatory Guide 1.206 is to provide guidance regarding the information to be submitted in a combined license application, as noted in Section 1.1. AREVA NP has structured the FSAR for the U.S. EPR to be consistent to the extent practical with the format and content that would be expected for a COL applicant.

The QAP for the U.S. EPR is described in the QAP topical report. The QAP provides the specific applicability and application of the criteria of 10 CFR 50, Appendix B and the Basic, Supplemental and applicable Subpart requirements of ANSI/ASME NQA-1-1994 to the U.S. EPR Design Certification Project. Each section of the QAP delineates the applicability of the criteria to the U.S. EPR design certification.

17.5.3 Evaluation of the QAPD Against the SRP and QAPD Submittal Guidance

The U.S. EPR QAP has been approved by the NRC and conforms to the guidance provided in NUREG-0800.

Per Section 1.8 of the QAP, AREVA NP Inc. does not delegate any of the activities associated with planning, establishing, or implementing the overall QA program to others and retains the responsibility for the program.

17.5.4 References

1. AREVA NP Inc. Topical Report ANP-10266A, Revision 1, "AREVA NP Inc. Quality Assurance Plan (QAP) for Design Certification of the U.S. EPR Topical Report," April 2007 (ML071790218).

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