



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION

R. E. GINNA NUCLEAR POWER PLANT

QUALITY ASSURANCE PROGRAM FOR FULL-TERM LICENSE

DOCKET NO. 50-244

1.0 INTRODUCTION

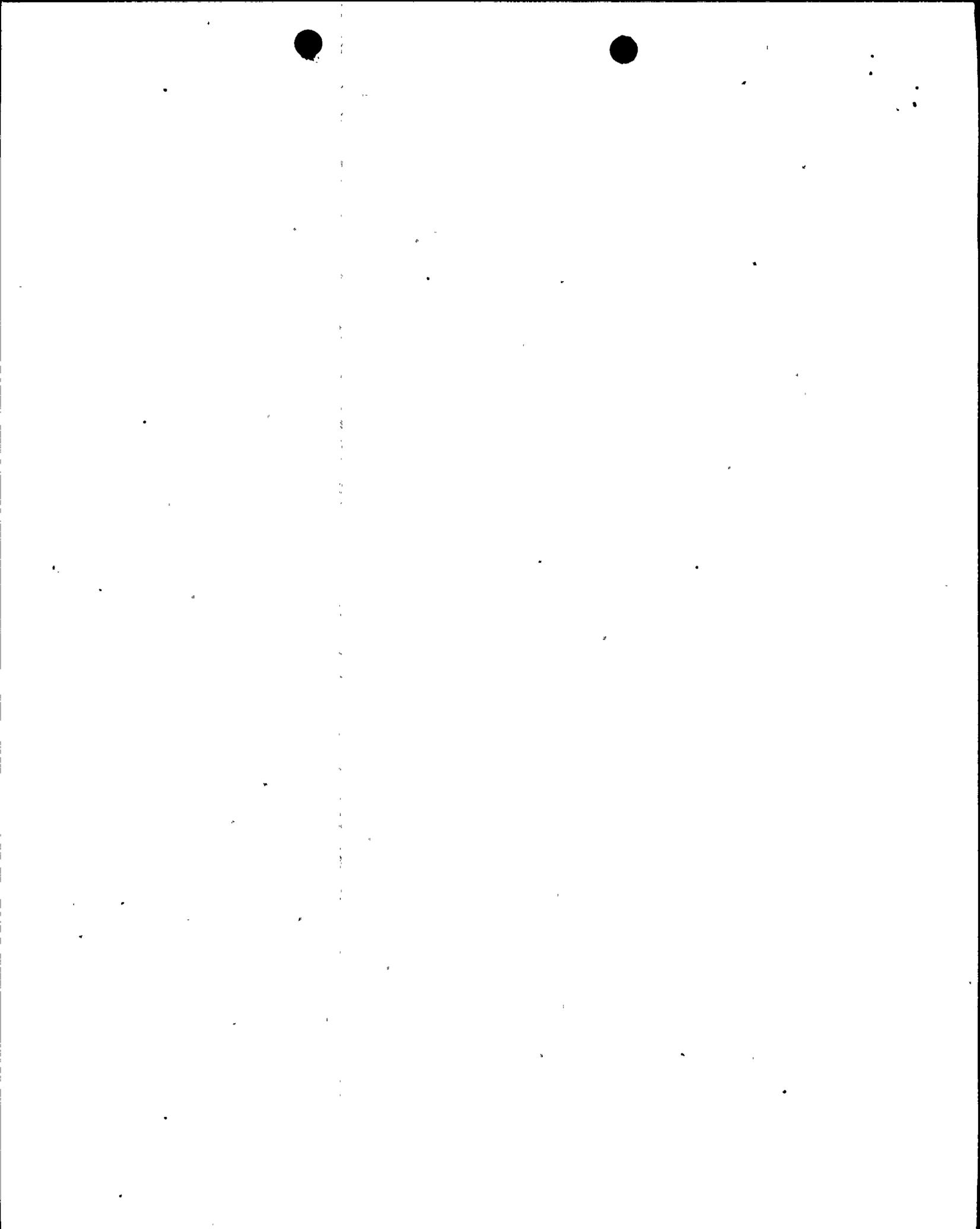
The quality assurance program for the full-term licensed operation phase of Rochester Gas and Electric Corporation's (the licensee) R. E. Ginna Nuclear Power Plant (Ginna) is described in Revision 6 to Supplement IV to the Technical Supplement Accompanying Application for a Full-Term Operating License, "Quality Assurance Program for Station Operation," July 1979. Our review of the quality assurance program for Ginna is based on the prior acceptance of Revision 3 dated January 30, 1976, to Supplement IV, discussions with representatives from the Rochester Gas and Electric Corporation (RG&E), and our evaluation of changes that have occurred since Revision 3, i.e., Revisions 4, 5 and 6, submitted December 21, 1978, April 23, 1979, and July 6, 1979, respectively. It is the licensee's intention that the quality assurance program for the operation phase comply with requirements of 10 CFR 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants" and with applicable quality assurance related Regulatory Guides and ANSI Standards.

2.0 DISCUSSION

Organization

The organizational structure responsible for the operation of Ginna and for the establishment and execution of the operation phase quality assurance program is shown in the attached Figure 1. The Vice President, Electric and Steam Production of RG&E, has corporate responsibility for operating Ginna in accordance with applicable regulatory requirements. He is responsible for establishing the policies and requirements necessary to assure safe and reliable operations of the Ginna Station. He has overall responsibility for and authority to direct quality affecting activities. He has delegated the responsibility for the detailed development and overall coordination of the quality assurance program to the Manager, Quality Assurance, who reports through the Engineering organization.

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The Manager, Quality Assurance, located offsite, is responsible for establishing and executing the overall quality assurance program. He is responsible for assuring that the program satisfies the requirements of 10 CFR 50, Appendix B, and for keeping the total program updated. He is responsible for assuring that all the planned and systematic actions necessary to provide adequate confidence that the Ginna Station will operate safely and reliably are established and followed. He provides management with objective information concerning quality, independent of the individual or group directly responsible for performing the specific activity. He has the authority and organizational freedom to assure all necessary quality affecting activities are performed and for establishing and implementing a comprehensive audit program.

The Quality Assurance Engineer, Operations, who reports to the Manager, Quality Assurance, is responsible for supervising the operational quality assurance program for Ginna. This includes preparing quality assurance policies and procedures and coordinating supplier qualification and surveillance. He provides quality assurance guidance to Ginna plant personnel.

The Quality Assurance Engineer, Design, who reports to the Manager, Quality Assurance, is responsible for interpreting the requirements of 10 CFR 50, Appendix B and applicable regulatory and code requirements related to plant modifications and providing guidance and assistance to engineering and station personnel on these requirements.

The Welding and Nondestructive Examination Engineer, who also reports to the Manager, Quality Assurance, is responsible for establishing the inservice inspection program.

The responsibility for proper implementation of the quality assurance program requirements at Ginna has been assigned to the Ginna Station Superintendent, who is responsible to the Superintendent, Nuclear Production, for safe operation of Ginna. Moreover, he is responsible for maintenance, repair, refueling, inservice inspection, modification, test and inspection of quality-affecting activities in accordance with the requirements of the quality assurance program.

The Ginna Station Quality Control Engineer is responsible to the Station Superintendent, through the Assistant Superintendent, for supervising the station Quality Control Organization, which is responsible for assuring that activities affecting quality are prescribed and carried out in accordance with approved drawings, specifications, and procedures. He is also responsible for coordinating inspection activities, for assuring that inspection requirements are included in approved procedures, for receipt inspection of incoming items, for processing nonconformance reports, for coordinating corrective action reports, and for assuring that corrective action is taken.



The General Maintenance Quality Control Coordinator is responsible to the Superintendent, General Maintenance, for verification activities for which General Maintenance Quality Control is responsible. In addition, he is responsible for assuring that maintenance activities affecting quality are carried out in accordance with approved drawings, specifications, and procedures; for the preparation of Quality Maintenance procedures; for coordinating receipt inspection of incoming items; for routine surveillance of General Maintenance activities; and for coordinating nonconformance reports, corrective action reports, and the replies to audit reports.

3.0 EVALUATION

Quality Assurance Program

The quality assurance organization is responsible for assuring that procedures and instructions provide for complete and adequate quality assurance requirements. In addition, quality assurance personnel provide sufficient reviews, inspections, and audits to verify the effective implementation of the entire quality assurance program.

The licensee has structured its quality assurance program for the operation phase to be in accordance with Appendix B to 10 CFR Part 50, and compliance with the regulatory positions given in quality assurance-related Regulatory Guides and with the requirements of ANSI N45.2.12 and is implemented by means of written policies, procedures, and instructions. These documents result in control of quality-related activities involving safety-related items in accordance with the requirements of Appendix B to 10 CFR Part 50 and with applicable regulations, codes, and standards.

The licensee's quality assurance program requires that implementing documentation encompasses detailed controls for (1) translating codes, standards, regulatory requirements, technical specifications, engineering and process requirements into drawings, specifications, procedures, and instruments; (2) developing, reviewing, and approving procurement documents, including changes; (3) prescribing all quality-related activities by documented instructions, procedures, drawings, and specifications; (4) issuing and distributing approved documents; (5) purchasing items and services; (6) identifying materials, parts, and components; (7) performing special processes; (8) inspecting and/or testing materials, equipment, processes or services; (9) calibrating and maintaining measuring equipment; (10) handling, storing, and shipping of items; (11) identifying the inspection, test, and operating status of items; (12) identifying and disposing of nonconforming items; (13) correcting conditions adverse to quality; (14) preparing and maintaining quality assurance records; and (15) auditing of activities which affect quality.

Quality is verified through checking, review, surveillance, inspection, testing, and audit of quality-related activities. The quality assurance program requires that quality verification be performed by individuals who are not directly responsible for performing the quality-related activities. Inspections are performed by qualified personnel in accordance with procedures, instructions, and checklists approved by the quality assurance organization.

The quality assurance organization is responsible for the establishment and implementation of the audit program. Audits are performed in accordance with pre-established written checklists by qualified personnel not having direct responsibilities in the areas being audited. Audits are performed to evaluate all aspects of the quality assurance program including the effectiveness of the quality assurance program implementation.

The quality assurance program requires the review of audit results by the person having responsibility in the area audited and corrective action where necessary. Continued deficiencies, or failure to implement corrective action, will be reported in writing by the quality assurance organization to the appropriate management within the Rochester Gas and Electric Corporation. Follow-up audits are performed to determine that nonconformance and deficiencies are effectively corrected and that the corrective action precludes repetitive occurrences. Audit reports, which indicate performance trends and the effectiveness of the quality assurance program, are prepared and issued to responsible management for review and assessment.

4.0 CONCLUSION

Based on our review and evaluation of the quality assurance program described in Revision 6 to Supplement IV to the Technical Supplement Accompanying the Application for a Full-Term Operating License for the R. E. Ginna Nuclear Power Plant, we conclude that:

1. The organizations and individuals performing quality assurance functions have the required independence and authority to effectively carry out the quality assurance program without undue influence from those directly responsible for cost and schedules.
2. The quality assurance program describes requirements, procedures, and controls that, when properly implemented, comply with the requirements of Appendix B to 10 CFR Part 50 and with applicable quality assurance-related Regulatory Guides and ANSI Standards.

3. The quality assurance program covers activities affecting structures, systems, and components identified in the Final Facility Description and Safety Analysis Report. It is our understanding that only the items designated as Seismic Class I on the list given in the SAR fall under the provisions of the quality assurance program. The licensee has agreed to document this understanding. An evaluation of the acceptability of the listing of structures, systems, and components is included in the scope of review of the Systematic Evaluation Program, Topic III-1, "Classification of Systems and Equipment."

Accordingly, we conclude that the licensee's description of the quality assurance program is in compliance with applicable NRC regulations.

Attachment:
Figure 1

Date:
SEP 17 1979

FIGURE 1: ORGANIZATION CHART

