QCI NO. 2

SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT ☐ 6201 S Street, P.O. Box 15830, Sacramento, CA 95813; (916) 452-3211
AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

RANCHO SECO NO. 1
QUALITY CONTROL INSTRUCTION APPROVAL SHEET

REVISION NO. 0 APPROVED BY:

MANAGER OF NUCLEAR ENGINEERING	J.R. Kirkland	4/11/84 Date
MANAGER OF NUCLEAR OPERATIONS	S. Crunk	4/15/84 Date
MANAGER, QUALITY ASSURANCE	G.M. Schwieger	4-9-84 Date
MSRC CHAIRMAN	R.J. Rodrigues	5/17/84 Date

REVISION NO. 1 APPROVED BY:

MANAGER OF NUCLEAR ENGINEERING	J.R. Kirkland	Date
MANAGER OF NUCLEAR OPERATIONS	S. Crunk	8-1-84 Date
MANAGER, QUALITY ASSURANCE	G.M. Schwieger	8-2-84 Date
MSRC CHAIRMAN	R.J. Rodrigues	8-7-84 Date

REVISION NO. APPROVED BY:

MANAGER OF NUCLEAR ENGINEERING		Date
MANAGER OF NUCLEAR OPERATIONS		Date
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		Date
		Date

REVISION NO. APPROVED BY:

MANAGER OF NUCLEAR ENGINEERING		Date
MANAGER OF NUCLEAR OPERATIONS		Date
MANAGER, QUALITY ASSURANCE		Date
		Date
		Date

RANCHO SECO UNIT NO. 1
QUALITY CONTROL INSTRUCTION (QCI)

QCI No. 2 Rev. 1

Effective Date 11/1/84

TITLE: SMUD NUCLEAR OPERATIONS QUALITY ASSURANCE AUDIT PROGRAM

1. INTRODUCTION

1.1 Purpose

The purpose of this program is to provide for systematic, planned audits of nuclear safety-related aspects of operation, maintenance, inspection, testing, modification, administration and the nuclear operations quality assurance program to verify that they are in accordance with their respective license requirements.

1.2 Scope

The audit program described herein shall apply to nuclear safety-related phases of work at the Rancho Seco No. 1 nuclear power plant during the operational life of the plant.

1.3 Referenced Documents

This audit program complies with the guidance found in the following documents:

a. SMUD Nuclear Operations Quality Assurance Manual QAP #19, System Auditing

b. ANSI N18.7-1972, Administrative Controls for Nuclear Power Plants

c. ANSI N45.12, Requirements for Auditing of Quality Assurance Program for Nuclear Power Plants

d. ANSI N45.2-1977, Quality Assurance Program Requirements for Nuclear Facilities

e. ANSI N45.2.23-1978, Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants

f. Management Safety Review Committee Charter

1.4 Definitions

Definitions of terms used in this procedure are defined in the following documents:

a. ANSI N18.7-1972, except for the definition of Licensee Event Reports which is found in NUREG 1022.

b. ANSI N45.2.10, Quality Assurance Terms and Definitions

1.5 Review of Audit Program

The results of audits and corrective action are reported to top management in the following ways:

a. Management Safety Review Committee (MSRC) reviews the audit findings and corrective actions done under their direction.

b. Audits made by the Quality Assurance group are transmitted to the Manager of Nuclear Operations, Manager of Nuclear Engineering, MSRC members, and other department managers whose areas were audited for their review and action, and the Executive Director, Nuclear for review.

c. The Management Safety Review Committee minutes are sent to the General Manager and Chief Engineer for review.

d. The Manager, Quality Assurance normally meets weekly with the Executive Director, Nuclear to apprise him of the Quality Assurance Program.

e. Audit reports conducted by Quality Assurance and reviewed by the MSRC shall be forwarded to the General Manager and Chief Engineer via the Audit Summary Report included in the MSRC minutes.

The distribution of audits to all MSRC members, plus the audit summary documented in the minutes of each MSRC meeting provide objective evidence that the MSRC is reviewing the QA Audit Program.

2. AUDIT PERSONNEL

2.1 Responsibility

The Manager, Quality Assurance shall be responsible for establishing, planning, scheduling, implementing, reporting, recording and providing followup of this audit program.

2.2 Audit Team

Audits of specific areas of nuclear plant or facilities activities shall be performed by audit teams.

2.2.1 Membership

The membership of audit teams shall be made up of the following:

a. Required

1) Audit team leader

b. Optional

1) Audit team members

2) Supplementary technical specialists who do not have organizational duties or responsibilities within the specific area being audited.

2.2.2 Education and Experience

a. Audit team leaders shallmeet the following qualifications:

1) Participated in five Quality Assurance audits in the last three years, one of which shall be a nuclear quality assurance audit within one year of the date of qualification.

2) Meet the qualifications listed in ANSI N45.2.12 and ANSI N45.2.23 which are based on the following:

i) Knowledge of NDE methods, auditing techniques, and code requirements and interpretations and/or

ii) General knowledge of nuclear steam supply system concepts and operations and/or

iii) Working knowledge of the area or activity to be audited as evidenced by passing the qualifying examination for that area or activity and/or

iv) On-the-job experience such as review of quality documents, providing initial development of QA procedures or audit checklists and attendance at QA or nuclear related meetings and seminars.

3) A point system shall be used for evaluating lead auditor qualifications. The scoring of this evaluation, and the minimum acceptable score for lead auditor qualification, shall be in accordance with section 2.3.1 of ANSI N45.2.23-1978.

b. Audit team members (including team leaders) qualifications shall require an Associate or Bachelors degree in Engineering, Science, Mathematics, or Quality Assurance or equivalent in experience.

c. Supplementary technical specialists may be chosen to assist an audit team leader if the person maintains the knowledge needed to perform a particular audit.

d. Auditors that are not qualified by a training program are selected on their background experience, basic, QA knowledge, and on-the-job training.

e. An examination shall be given to all prospective lead auditors to evaluate 1) oral and written communication skills, 2) knowledge of codes, standards, and regulations, 3) the Nuclear Operations Quality Assurance Manual, and 4) audit planning and auditing techniques. This examination may be oral or written, but in either case the content and results of the examination shall be documented and on file in the Quality Assurance office.

f. Lead auditor qualifications shall be reviewed annually to verify that requalification is unnecessary. This review shall be documented. Requalification shall include retraining, reexamination, and participation as an audit team member in at least one nuclear quality assurance audit.

2.3 Authority

In order to perform the audits required by the applicable documents properly and judiciously, the audit team shall be empowered with authority and sufficient organizational freedom to accomplish the following:

a. Establish the existence and adequacy of documentation governing phases of the operation, maintenance, management administration and quality assurance of the nuclear plants and the facilities in support of these plants.

b. Audit selected procedures used by persons performing nuclear safety-related activities to verify that they adequately describe the activity in accordance with quality assurance requirements.

c. Evaluate activities "in process" to verify compliance with approved procedures.

d. Evaluate the training and qualification of operating, maintenance, quality assurance and support personnel.

e. Evaluate plant activity following reportable occurrences, including long-range programs designed to prevent the repetition of such occurrences.

f. Initiate and recommend tentative solutions to deficiencies or nonconformances detected during the audit.

g. Verify implementation of corrective actions.

h. Establish audit and re-audit requirements and schedules.

3. AUDIT COVERAGE

3.1 General

All activities, organizations, documentation, maintenance and modification activities, and personnel directly concerned with the nuclear safety-related aspects/operation of a functioning nuclear plant or acting in support thereto shall be subject to audit under this program. While this document primarily concerns itself with on-site activities, certain off-site functions such as management policy decisions or independent review of documentation

directly affecting the design and operation of the nuclear facilities are also subject to audit.

3.2 Audit Subjects

Audits shall be conducted with specific attention to the subjects (Attachment No. 1) at the required frequencies.

3.3 Compliance

Safety-related activities affecting the Rancho Seco plant shall comply with and shall be audited against the following requirements:

3.3.1 Quality Assurance Instructions

a. SMUD Nuclear Operations Quality Assurance Manual

b. Rancho Seco Unit No. 1 Quality Control Instructions (QCIs)

3.3.2 Plant Procedures

a. Administrative Procedures

b. Surveillance Test Procedures

c. Maintenance Procedures

d. Emergency Procedures

e. Security Plan (Security Plan Implementing Procedures)

f. Plant Operations Manual

g. Engineering Configuration Procedure, ECP-1

3.3.3 Regulations

a. Title 10, Code of Federal Regulations, Part 2, "Rules of Practice"

b. Title 10, Code of Federal Regulations, Part 20, "Standards for Protection against Radiation"

c. Title 10, Part 50, "Licensing of Production and Utilization Facilities," including appendices

d. Title 10, Part 55, "Operators Licenses"

e. Title 10, Part 70, "Special Nuclear Material"

f. Title 10, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material under Certain Conditions"

g. Title 10, Part 73, "Physical Protection of Plants and Materials"

h. Title 49, Parts 170-179, "Packaging of Low-Level Radioactive Waste for Transportation and Burial"

3.3.4 License Requirements

a. Nuclear Plant Updated Safety Analysis Report

b. Nuclear Plant Technical Specifications

3.3.5 Operations Quality Assurance Organization

The Manager, Quality Assurance shall provide for an audit of his own organization by the following:

a. Assign this responsibility to another group in SMUD, and/or

b. Assign this responsibility to a joint utilities management audit team and/or

c. Assign this responsibility to an outside consultant, and/or

d. Make arrangements for a subcommittee of the MSRC to conduct such an audit

The results of this audit shall be reported to the MSRC.

4. AUDIT SCHEDULING

4.1 Program Planning

A systematic, documented program of routine scheduled audits shall be prepared and maintained by the Manager, Quality Assurance or his designated agent. The program of scheduled audits shall be coordinated with the Manager

of Nuclear Operations and other groups or activities affecting nuclear plant safety. (Presented in Attachment No. 1)

4.2 Frequency of Scheduled Audits

All activities and organizations responsible for the operation, maintenance, control, administration or quality assurance of nuclear plants or facilities shall be subject to audit under this program not less frequently than that shown on Attachment No. 1. The frequency of audits given in Attachment No. 1 can be varied by ± 30 days.

4.3 Unscheduled Audits

Normally, audits shall be performed in accordance with the schedule discussed above; however, these scheduled audits may be supplemented by random, unscheduled audits. These audits will be conducted at the discretion of the Manager, Quality Assurance or his agent on the basis of the following criteria:

a. After reportable occurrences or unusual events when directed by the MSRC Chairman (Licensee Event Reports and Special Reports)

b. After notification of finding of substandard performance based on audits or reviews by governmental or regulatory agencies

c. After significant changes are made in functional and organizational structures, including reassignment or changes of key personnel

d. After expedient or non-routine changes in plant design suspected to be unauthorized or unapproved

e. After significant emergencies or natural disturbances calling for implementation of the Station Emergency Plan

f. After strikes or work disruptions causing temporary reassignment of personnel

g. As a result of special circumstances (Examples: An event that causes major damage to property or equipment; changes in transportation or radioactive material)

h. After significant changes in procedures or the QA program

i. When a condition arises where safe operation may be in jeopardy due to a deficiency in the QA program

j. When necessary to requalify a vendor or contractor due to uncertainty arising in his qualifications

k. Upon the suspicion, based on a review of plant operations, that reportable occurrences or malfunctions have assumed a repetitive or non-routine nature

5. AUDIT IMPLEMENTATION

5.1 General

Implementation of audits conducted under this program shall include preparation, performance, reporting and followup. The significant features of these steps are described in the following paragraphs:

5.1.1 Special Audit

NOTE: Special audits are those audits which are separate from the regularly scheduled audits found in Attachment No. 1. Special audits may be directed by the MSRC or the Manager, Quality Assurance.

Upon notification of his assignment, the audit team leader shall prepare a written audit plan. As a minimum, this plan should include the following:

a. Audit activity

b. Identification of areas to be audited

c. Listing of applicable documents or classes of documents (e.g., manuals)

d. Identification of audit team members or supplementary technical specialists with a listing of any special assignment during the audit.

5.1.1.1 Exception

Unscheduled audits, if performed in immediate response to an emergency or reportable occurrence shall follow the steps

outlined by the Plant Review Committee (PRC) for the resolution of the problem which precipitated the audit.

5.1.1.2 Routine Scheduled Audit

The routine scheduled audit (Attachment No. 1) covering repetitive functions at the operating site, may be performed without detailed planning but will provide for notification of impending audit and exit meeting. These audits are sent to the MSRC as part of their audit program.

5.1.1.3 Updating Audit Checklists

Audit checklists or procedures shall be developed to provide guidance in auditing a particular area or activity. These checklists shall be based on requirements of the QA Manual and applicable code and license provisions. Changes in the QA Program shall be promptly evidenced in the QA Manual. Changes in code or license provisions shall be transmitted to affected QA group members by the Manager, Quality Assurance. These changes shall be reviewed by the responsible persons for knowledge and used in developing or updating any audit checklists affected. In addition, the QA personnel may hold seminars to acquaint auditors with up-to-date requirements to be used in the audit program.

5.1.2 Team Orientation

The team leader shall insure that the audit team members or supplementary technical specialists are sufficiently prepared prior to the implementation of the audit. Team members should be provided with copies of the written audit plan and applicable standards, codes, regulatory requirements and background information as appropriate.

5.1.3 Audit Notification

Notification of an impending audit shall be made to the audited organization by the audit team

leader prior to the conduct of the audit. Random, unscheduled audits may be conducted without prior notification except for prior agreement between the audit team leader and the Manager of Nuclear Operations.

5.2 Conduct of the Audit

5.2.1 Pre-Audit Conference

The audit team leader of special audits shall conduct a pre-audit meeting at the audit site with the audit team members and supplementary technical specialists and the cognizant supervisor of the audited organization when practical, but it is not a requirement.

The purpose of this pre-audit meeting shall be to:

a. Introduce auditors
b. Meet counterparts
c. Outline the audit plan
d. Discuss audit sequence
e. Review previous audit results, when applicable
f. Arrange post-audit conference

5.2.2 Audit Performance

5.2.2.1 The checklists or procedures prepared by the audit team leader shall be used to insure adequate depth and continuity of the audit. The checklist should call out checking an adequate number of documents (i.e., NCRs, WRs, etc.) to insure potential problem areas are resolved.

5.2.2.2 The checklist may have two sections; major and minor items. Major is defined as those items that should be checked if at all possible. Minor items will be at the discretion of the auditor(s).

5.2.2.3 The checklists or procedures are to be used as guidelines and additional items may be added or deleted as deemed necessary by the audit team.

5.2.2.4 The depth of the audit shall depend upon the present activities being performed.

and the results of previous audits and surveillances.

5.2.2.5 The audit shall include the evaluation of work areas, procedures, processes and items (where applicable), and the review of documents and records.

5.2.2.6 Items not identified as discrepancies, but indicating areas where work practices could be improved shall be brought to the attention of the responsible supervisor for his consideration. No formal responses are necessary for these items.

5.2.2.7 Discrepancies found in procedures or manuals during audits shall be reported as audit findings.

5.2.2.8 When any nonconformance is found by an audit, further investigation shall be conducted in an effort to identify the basic cause and effect of the nonconformance and to determine the extent of the corrective action required.

5.2.2.9 Nonconformances shall be recorded as audit findings and acknowledged by a member of the audited organization.

5.2.3 Post-Audit Conference

5.2.3.1 A post-audit conference shall be conducted by the audit team leader with the responsible supervisor of the audited organization when deemed necessary by the audit team leader.

5.2.3.2 The objective of the post-audit conference shall be to:

a. Discuss the audit findings

b. Determine if there have been any errors or misunderstandings regarding the findings.

c. Clarify any misunderstandings and reach an agreement on findings which constitute a nonconformance.

d. Recommend improvements to responsible supervisor of the audited organization

e. Establish a commitment to corrective action

5.3 Reporting and Records

5.3.1 The Audit Report

The formal audit report shall be reviewed and approved by the audit team leader and should preferably be issued no later than two weeks after completion of the audit. The report shall contain as a minimum, the following:

a. Summary of audit results

b. Detailed findings with respect to appropriate subjects as delineated in Sections 3.2 and 3.3, respectively

c. Recommended corrective actions as appropriate

d. Summary of team leader of the audit team

5.3.1.1 Distribution

Copies of the audit report shall be sent to the management head of the organization which was audited and to the Manager, Quality Assurance. The Manager, Quality Assurance is responsible for providing an audit summary with recommendations and comments to inform the MSRC on the status of the audit program. The Manager, Quality Assurance shall notify the Executive Director, Nuclear concerning any significant deficiencies in the Nuclear Operations Quality Assurance Program or its implementation.

5.3.2 Records

Quality Assurance shall maintain records of all audit reports including reports or re-audits, as appropriate. This QCI is the audit plan (refer-

ence ANSI N45.2.12), the individual plan is the checklist, which is usually included as individual items in the audit report. The responses to the audit report, including written replies and completion of corrective action, will be filed with the audit report or included in the followup audit.

5.4 Audit Response and Followup Action

5.4.1 The audited group is responsible for deciding corrective action to be taken to resolve any nonconformances identified by QA audits.

5.4.2 The status of the followup action will be reported as follows:

a. Report by audited group

b. Monthly Followup Action Report developed by Quality Assurance

5.4.3 The Manager, Quality Assurance may provide for audits of followup action for deficiencies in the following manner:

a. Utilizing the next scheduled audit

b. Performance of the Closure of QA Followup Items Audit (Attachment No. 1, Item 45)

c. Performing certain special audits based on scheduling, manpower capabilities and on the magnitude or significance of the deficiency

d. The MSRC Chairman will direct a memo to the appropriate department manager if a corrective action response has not been received within 30 working days of the distribution date.

e. If a response is not received by the due date, the lack of response will be added to the MSRC agenda for discussion at the next scheduled MSRC meeting.

f. Audit responses will be reviewed for acceptability by the Lead Auditor. His acceptance is identified by so stating, dating and initialing the response.

g. Unacceptable responses are given to the Manager of Quality Assurance for resolution. If resolution is not reached with the audited organization, the problem is brought to the MSRC for resolution. The MSRC minutes will document the resolution.

5.5 Analysis of Audit Trends and Corrective Action

The MSRC shall determine if any trends deleterious to plant safety have been established and effect any remedial action. This determination shall be based on their analysis of audit reports and comments provided by the Manager, Quality Assurance and day-to-day operational activities at the Rancho Seco No. 1 plant.

5.5.1 Corrective Actions

The results of all actions taken to correct deficiencies occurring in facility equipment, structures, systems or method of operation that affect nuclear safety shall be reviewed at least once per six (6) months.

5.5.2 Trend Analysis

a. The MSRC shall direct a trend analysis to be conducted annually to the requirements of QCI No. 13 to cover:

1) NCRs
2) ECNs
3) LERs
4) NRC violations
5) Audits
6) Radiological incident reports
7) Security degradation reports
8) Plant operation history
9) Serialized work requests

b. The report shall be given to the MSRC.

c. The report shall be given to the General Manager and Chief Engineer after MSRC review and approval.

5.6 The performance of all activities required by the Quality Assurance Program to meet the criteria of Appendix B, 10CFR50, at least once per two years.

5.6.1 The MSRC shall annually:

a. Assign an outside organization to review the Quality Assurance Program for compliance

b. A report shall be given to the MSRC including all corrective actions taken

c. A report shall be given to the General Manager and Chief Engineer after MSRC review and approval

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
1. Records	NQA-1, Supplement 17-S1	Yearly				X*		
2. Records of Personnel Performing Audits	ANSI N45.2.12.5.3	Yearly			X			
3. Audit Implementation	ANSI N45.2.12.4 QCI No. 2, QAP No. 19	Yearly				X*		
4. Selection and Training of Facility Staff	ANSI N18.1, AP.700 Tech Spec 6.3 & 6.4	Yearly		X				
5. Surveillance Program and Records	ANSI N18.7.5.1.7, AP. 303 SPs 200 through 214 Tech Spec 6.8.1(c)	Yearly		X				
6a. Plant Security	10CFR73.55 Security Manual Tech Spec 6.8.1(d)	6 months	X		X			
b. Fence Barrier	W Hammond Memo 9/25/79	6 months		X		X		
c. Contingency Plan	10CFR50.54(p)(3) 10CFR73.55(g)(4) 10CFR73.40(d)	Yearly				X		
7. Maintenance Program	ANSI N18.7.5.3.5 AP.3, QAP No. 6, QAP No. 13	6 months	X		X			
8. Radiological Safety and Control	ANSI N18.7.5.3.7 10CFR20, 10CFR70 (Continued)	Yearly			X$^{\Delta}$			

*MSRC Committee
~~NQA & Rad Expert~~
$^{\Delta}$QA & Purchasing

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
	Reg. Guide 1.21 Radiological Control Manual TS 6.11 and 6.13							
9. Inservice Inspection								
a. Power Piping	ASME Section XI TS 3.1.2.1, 4.2.2, 4.13	Refueling or major outage. Audit should be concurrent with actual inspection						
b. Steam Generators	TS 4.17 Reg Guide 1.83							
c. RX Building Tendons	TS 4.4.2 Reg Guide 1.35	5 years*						
10. Materials Control Procedures & Documentation	10CFR50, Appendix B ANSI N18.7.5.3.9 ANSI N45.2.13 QAP No. 4, QCI No. 4	Yearly□		X				
11. Qualification of Inspection, Examination, & Testing Personnel	ASME Section III, V & IX Reg Guide 1.58 TS 6.3.1, 6.4.1	Yearly			X			
12. Licensee Event Reports & Special Reports	NUREG 1022 TS 1.8, 6.6, 6.9.4, 6.9.5 10CFR50.72, 10CFR50.73	6 Months	X		X			
13. Minutes of PRC	PRC Charter TS 6.5.1	6 Months		X		X		
14. Minutes of MSRC	MSRC Charter TS 6.5.2	6 Months	X		X			
15. Safety Systems Hydraulic Snubbers	TS 4.14, 3.12	Yearly		X				

*Next inspection scheduled 1987

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
16. Environmental Monitoring Program	TS App. B 5.1.C TS 6.5.2.8.K	6 Months		XΔ		XΔ		
17. Operational Logs & records	TS 6.10 AP.23	Yearly			X			
18. Operational Reporting Requirements	TS 6.6, 6.7, 6.9 Reg Guide 1.16, App A	Yearly				X		
19. Control & Accountability for Special Nuclear Mat'l	AP.16 10CFR70	Yearly		X				
20. Logging of Operational Transients	AP.17	Yearly	X					
21. Special Test Procedures	AP.302	Yearly		X				
22. General Warehousing	AP.605 QAP Nos. 10, 15, 17	Yearly				X		
23. Configuration Control	QAP No. 7, ECP-1	Yearly			X			
24. Control of Measuring & Test Equipment	Reg Guide 1.33, AP.33 QAP 14, ANSI N18.7.5.3.6	Yearly	X					
25. Clearance Procedures	QAP No. 25, AP.4	Yearly				X		
26. Emergency Plan	Emergency Plan Manual TS 6.8.1(e)	Yearly	X					

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
27. Fire Protection	QAP No. 28 Reg Guide 1.120 ANI Requirements TS 3.14 & 4.18							
a. Compliance with Requirements & Implementing Procedures	TS 6.5.2.h	2 Years					X*	
b. Independent Fire Protection & Loss Prevention	TS 6.5.2.8i	Yearly	X					
c. Independent Fire Protection & Loss Prevention by Outside Consultant	TS 6.5.2.8j	3 Years						X**
28. Design Review	QAP 2, QCI 5, ECP-1 ANSI N45.2.11 10CFR 50.59	Yearly			X			
29. Backshift & Weekend Visit Program	QCI No. 8	6 Months	X		X			
30. Packaging of Low-Level Radioactive Waste for Transportation & Burial	49CFR170-179 10CFR71	Yearly				X		
31. Nonconformances	QAP 17, QCI 1	6 Months		X		X		
32. (Combined with Item No. 4)								
33. Corrective Action	TS 6.5.2.8c QCI 7, QAP 27	6 Months		X		X		
34. Housekeeping	QAP 23	Yearly			X			

*Next scheduled audit 1984
**Next scheduled audit 1984

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
35. Operational QA Program	Tech Specs (as required)	Continual	X	X	X	X		
36. Closure of Audits	ANSI N45.2.12	Yearly				X		
37. Cleanliness	Reg Guide 1.37 ANSI N45.2.1-1973	Yearly	X					
38. Preventive Maintenance	AP.650	Yearly		X				
39. Inspection	QAP No. 16	Yearly		X				
40. Special Processes	QAP 9, QCIs 101, 104, 105, 106, 108, 109, 111, 112, 114 & M-113	Yearly		X				
41. Document Control, QA Manuals, Tech Specs & CCL	QAP 18, QCI 9	Yearly		X				
42. ALARA Program	Reg Guide 8.8	Yearly				X		
43. MSRC Recommendations	MSRC Minutes	Yearly			X			
44. Vendor Audit Program	Appropriate Standards	As Required						
45. Closure of QA Followup Items*		Quarterly	X	X	X	X		
46. Abnormal Tags	AP.26	Yearly			X			
47. Software Changes	AP.52	Yearly				X		
48. Offsite Dose Calculation	TS 6.5..2.8L, Offsite Dose Calculation Manual	2 Years					1986	
49. Process Control Program for Solidification of Radioactive Wastes	TS 6.5.2.9C	2 Years					1985	

NOTE: Item 35 will be a combination audit/surveillance of Nuclear Operations

*Computer generated QA Action Followup List

MSRC QUALITY ASSURANCE AUDIT PROGRAM SCHEDULE

ACTIVITY	AUDIT TO	SUGGESTED FREQUENCY	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2nd Year	3rd Year
50. Architech/Engineers	QA Program	Annual*						
51 Pre-INPO Audit		**						

*Will be on an annual basis for each Architech/Engineer
**Audit to be conducted 8 weeks prior to scheduled INPO audit