

March 11, 2003

Ms. Diane Wells, Reactor Administrator
U.S. Department of the Interior
Geological Survey
Denver Federal Center
Box 25046, MS 915
Denver, CO 80225-0046

SUBJECT: NRC INSPECTION REPORT NO. 50-274/2003-201

Dear Ms. Wells:

This letter refers to the inspection conducted on February 18-20, 2003, at your U.S. Geological Survey TRIGA Reactor Facility. The enclosed report presents the results of that inspection.

Various aspects of your reactor operations and security programs were inspected, including selective examinations of procedures and representative records, interviews with personnel, and observations of the facility. Based on the results of this inspection, no safety concern or noncompliance with Nuclear Regulatory Commission (NRC) requirements was identified. No response to this letter is required.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at (the Public Electronic Reading Room) <http://www.nrc.gov/reading-rm/adams.html>.

Should you have any questions concerning this inspection, please contact Craig Bassett at 404-562-4712.

Sincerely,

/RA/

Patrick M. Madden, Section Chief
Research and Test Reactors Section
Operating Reactor Improvements Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No. 50-274
License No. R-113

Enclosure: NRC Inspection Report No. 50-274/2003-201

cc w/enclosure: Please see next page

U.S. Geological Survey

Docket No. 50-274

cc:

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Test, Research, and Training
Reactor Newsletter
University of Florida
202 Nuclear Sciences Center
Gainesville, FL 32611

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U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION

Docket No: 50-274

License No: R-113

Report No: 50-274/2003-201

Licensee: United States Geological Survey

Facility: Geological Survey TRIGA Reactor

Location: Building 15, Denver Federal Center, Denver Colorado

Dates: February 18-20, 2003

Inspector: Craig Bassett

Approved by: Patrick M. Madden, Section Chief
Research and Test Reactors Section
Operating Reactor Improvements Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

EXECUTIVE SUMMARY

United States Geological Survey
Report No. 50-274/2003-201

The primary focus of this routine, announced inspection was the on-site review of selected activities at the United States Geological Survey TRIGA Reactor Facility. This facility is a one megawatt Class II research reactor. The activities audited during this inspection included: organization and staffing; review and audit functions; reactor operations; procedures; maintenance and surveillance; experiments; fuel handling; design control; operator requalification; emergency preparedness; security; and, material control and accounting.

Organizational and Staffing

- The organizational structure and functions were consistent with the requirements specified in Section H of the Technical Specifications.

Review and Audit Functions

- Audits were being conducted by the Reactor Operations Committee in compliance with the requirements specified in Section 3 of the Reactor Operations Manual and Section H.2 of the Technical Specifications.

Operations

- Reactor operations and logs were acceptable and in accordance with procedural and Technical Specification requirements.

Procedures

- Based on the procedures and records reviewed and observations of staff during the inspection, the procedural control and implementation program was determined to be satisfying Technical Specification requirements.

Maintenance and Surveillance

- The facility maintenance program was being implemented as required by facility procedures.
- The licensee's program for completing surveillance requirements and confirming Limiting Conditions for Operation satisfied Technical Specification requirements.

Experiments

- Conduct and control of experiments and irradiations met the requirements specified in the Technical Specification Section I and the applicable experiment authorizations and procedures.

Fuel Handling

- Fuel handling activities and documentation were as required by the Technical Specifications and facility procedures.

Design Control

- The latest change completed by the licensee was reviewed using the criteria specified in 10 CFR 50.59, determined to be acceptable, and approved as required.

Operator Requalification

- The requirements of the Operator Requalification Program were being met and the program was being acceptably implemented.

Emergency Preparedness

- Based on the review of the implementation of the E-Plan and the response to the emergency drills, the emergency preparedness program was found to be satisfactorily implemented.

Security

- Security facilities, equipment, and procedures satisfied the Physical Security Plan requirements.

Material Control and Accountability

- The licensee's program for controlling and tracking Special Nuclear Material as required by 10 CFR Part 70 was being implemented acceptably.

REPORT DETAILS

Summary of Plant Status

The licensee's one megawatt Research and Test Reactor continued to be operated in support of U.S. Geological Survey programs. During the inspection the reactor was operated at full power as needed to support on-going experimental and research work.

1. Organizational Structure and Staffing

a. Inspection Scope (Inspection Procedure [IP] 69001)

The inspector reviewed selected aspects of the following regarding the licensee's organization and staffing to ensure that the requirements of Section H of Technical Specifications (TS), Amendment No. 8, dated March 16, 1998, were being met:

- organizational structure for the Geological Survey TRIGA Reactor (GSTR) Facility
- staffing requirements for safe operation of the facility
- current staff qualifications
- Reactor Operations Manual (ROM), Section 3, "Nuclear Center Organization," dated January 1995
- U.S. Geological Survey TRIGA Reactor Annual Reports for 2001 and 2002

b. Observations and Findings

The organizational structure and staffing had not functionally changed since the last inspection (refer to NRC Inspection Report No. 50-274/2001-201). The reactor HP staff consisted of one full time health physicist who also functioned as the Radiation Safety Officer (RSO) for all United States Geological Survey (USGS) organizations at the Denver Federal Center. The operations staff was made up of three Senior Reactor Operators (SROs) and two Reactor Operators (ROs). Section 3.4.1 of the ROM stated that the training and qualifications contained in the American National Standards Institute (ANSI) Standard 15.4 "Standards for Selection and Training of Personnel for Research Reactors" were the minimum for USGS Triga Reactor Facility personnel. The inspector confirmed that the reactor staff met ANSI 15.4 education, training, and experience requirements.

c. Conclusions

The licensee's organization and staffing were in compliance with the facility TS Section H.

2. Review and Audit Functions

a. Inspection Scope (IP 69001)

In order to verify that the licensee had established and conducted reviews and audits as required by TS Section H.2, the inspector reviewed selected aspects of:

- Reactor Operations Committee (ROC) meeting minutes for 2001 and 2002

- safety review records and audit reports for the past two years
- responses to the audit reports
- ROC Committee charter outlined in the U.S. Geological Survey Manual, 309.44.1, "Reactor Operations Committee," dated February 5, 1999
- ROM, Section 3, "Nuclear Center Organization," dated January 1995

b. Observations and Findings

The inspector verified that the ROC semiannual meeting schedule and membership satisfied TS Section H.2, ROC charter, and ROM requirements. Review of the meeting minutes for the past two years indicated that the committee provided guidance, direction, and oversight for the reactor and ensured suitable and safe reactor operations.

The ROC minutes and audit records showed that safety reviews and individual audits had been completed for the functional areas specified by TS Section H.3 and at the frequency specified in Section 3.8 of the ROM. Audits were tracked using a spreadsheet that included the assigned auditor, date due, and audit topic. The inspector noted that the licensee conducted an audit of reactor operations, maintenance and operations logs, fuel movement, facility procedures, the operator requalification program, and the Radiation Protection Program. The results of the audits for the past two years were documented in reports dated May 1, 2001, and April 30, 2002. The inspector determined that the audit findings and licensee actions taken in response to the findings were acceptable.

c. Conclusions

Audits and reviews conducted by the ROC were in accordance with the requirements specified in Section H.2 of the TS and Section 3 of the ROM.

3. Operations

a. Inspection Scope (IP 69001)

The inspector reviewed selected aspects of the following to verify operation of the reactor in accordance with TS Sections C - E:

- Reactor Operations Logbooks Numbers (Nos.) 110 - 117
- staffing for operations as required by ROM, Section 5
- selected startup, operational, and shutdown activities on February 18, 19, and 20, 2003
- selected U.S. Geological Survey TRIGA Reactor Facility Start-Up Checklists including Page 1, Revision (Rev) 7 dated September 1997 and Page 2, Rev 7, dated April 2002
- selected U.S. Geological Survey TRIGA Reactor Facility Shutdown Checklists, Rev 13, dated April 2002
- selected U.S. Geological Survey TRIGA Reactor Facility Monthly Checklists, Rev 7, dated September 1997

- ROM, Section 5, "Operating Procedures," Rev 4, dated October 1995
- GSTR Procedure No. 1, "Procedure for Reactor Startup, Operation, and Shutdown," last reviewed April 30, 2001
- GSTR Procedure No. 6, "Procedure for Loading and Unloading Irradiation Facilities," last reviewed October 28, 2001
- GSTR Procedure No. 14, "Procedure for Overhead Crane Operation," last reviewed April 29, 2002

b. Observations and Findings

The inspector reviewed the operation logs from January 2001 through the present. The inspector also reviewed Daily Start-Up and Shutdown Checklists and Monthly Checklists. Additionally, the inspector observed selected reactor startups, shutdowns, and steady state operations during the inspection. Reactor operations were carried out in accordance with written procedures as required by TS Section H.3. Information on the operational status of the facility was generally recorded accurately in log books or on checklists as required by Section 3.C. of the License and ROM Section 5. Scrams were identified in the logs and records, and were reported and resolved as required before the resumption of operations. Through interviews with operators and review of logs and records, the inspector confirmed that shift staffing met the minimum requirements for duty and on-call personnel as required by ROM Section 5.2.4.

c. Conclusions

Based on the procedures and records reviewed and observations made during the inspection, the inspector determined that reactor operations and logs were acceptable and in accordance with procedural and TS requirements.

4. **Procedures**

a. Inspection Scope (IP 69001)

The inspector reviewed selected aspects of the following to ensure that safety standards and written instructions for those activities specified in TS Sections H.2 and H.3 were in effect:

- selected administrative and operations procedures
- records of changes and temporary changes to procedures
- observation of procedural implementation
- ROC meeting minutes documenting procedure change reviews and approvals

b. Observations and Findings

The inspector reviewed ROM Sections 4, 5, and 8, and selected specific operating procedures contained in ROM Section 5. These ROM Sections contain descriptions of the administrative, operations, and HP procedures for the facility. The inspector confirmed that written procedures were available for those tasks and items required by

TS Sections H.2 and H.3. The licensee controlled changes and temporary changes to procedures, and associated review and approval processes as required.

After review of the 2002 training records and interviews with staff, the inspector determined that the training of personnel on procedures was adequate. During tours of the facility, the inspector observed that personnel performed facility operations and tasks in accordance with applicable procedures.

c. Conclusions

Based on the procedures and records reviewed and observations of staff during the inspection, the inspector determined that the procedural control and implementation program was acceptably maintained.

5. Maintenance and Surveillance

a. Inspection Scope (IP 69001)

To verify that the maintenance and surveillance programs were being conducted as required in TS Sections C through E, the inspector reviewed selected aspects of:

- GSTR Maintenance Log No. 1, pages 144-147
- Reactor Operations Logbooks Nos. 110 - 117
- reactor operations, periodic checks, tests, and verifications
- surveillance, calibration, and test data sheets and records
- U.S. Geological Survey TRIGA Reactor Annual Reports for 2001 and 2002
- selected U.S. Geological Survey TRIGA Reactor Facility Start-Up Checklists including Page 1, Revision (Rev) 7 dated September 1997 and Page 2, Rev 7, dated April 2002
- selected U.S. Geological Survey TRIGA Reactor Facility Shutdown Checklists, Rev 13, dated April 2002
- selected U.S. Geological Survey TRIGA Reactor Facility Monthly Checklists, Rev 7, dated September 1997
- GSTR Procedure No. 2, "Procedure for Reactor Power Calibration," last reviewed April 30, 2001
- GSTR Procedure No. 3, "Procedure for Control Rod Calibration," last reviewed April 29, 2002
- GSTR Procedure No. 7, "Procedure for Control Rod Measurement, Inspection, or Replacement," last reviewed April 29, 2002
- GSTR Procedure No. 21, "Procedure for Measuring Control Rod Drop Time," last reviewed November 5, 2002

b. Observations and Findings

(1) Maintenance

The inspector reviewed selected maintenance procedures and other associated maintenance records including the Maintenance Log. This review showed that

routine and preventive maintenance was controlled and documented in the maintenance or operations log consistent with licensee procedures. Verifications and operational systems checks were performed to ensure system operability before an item of equipment or a system was returned to service. Unscheduled maintenance or repairs were reviewed to determine if they required a 10 CFR 50.59 evaluation.

(2) Surveillance

Surveillances, checks, and inspections were tracked through the Daily and/or Monthly Checklists. Documentation of completion of these activities was maintained in the Checklists or in the appropriate logbooks. This system was found to provide adequate control of the reactor operational tests, Limiting Conditions for Operation (LCO) verifications, and surveillances.

The inspector reviewed selected records of TS required surveillances and LCO verifications performed since January 2001. These surveillances and verifications included the daily checkouts that provide control rod scram, withdraw prevent, and interlock functions, as well as monthly surveillance checks of the reactor ventilation system, building alarms, radiological safety, and reactor water system. Other periodic surveillances and verifications were reviewed including power calibrations, control rod inspections and fuel elements inspections. The review showed that the periodic checks, tests, and verifications for TS required LCOs and surveillances were completed as required. The results of these activities were within prescribed TS limits and procedure parameters and in agreement with the previous surveillance results.

c. Conclusions

The licensee's maintenance program was being implemented as required by GSTR procedures. The program for surveillance checks and LCO confirmations satisfied TS requirements.

6. Experiments

a. Inspection Scope (IP 69001)

The inspectors reviewed selected aspects of the following to assure compliance with TS Section I:

- experiment program requirements contained in ROM Sections 4.5 through 4.8
- selected U.S. Geological Survey TRIGA Survey Reactor Radioisotope Request and Receipt Forms, Serial Nos. 10313 - 12271
- selected U.S. Geological Survey TRIGA Survey Reactor Experiment Authorization Forms including Parts I, II, and III
- other related experiment logs and records

b. Observations and Findings

Experiments at the GSTR were considered as either Class I or Class II experiments. Class I experiments were those that had been performed previously or were minor modifications to previous experiments. They could typically be approved by the Reactor Supervisor (RS). Class II experiments were new experiments or major modifications of previously existing ones. These were required to be reviewed and approved by the ROC. The inspector noted that all current experiments were reviewed on an annual basis by the RS and approved if still active and the appropriate controls were still in effect.

The inspector reviewed selected experiment authorizations and one new experiment approval of an experiment designated as Class II involving bromine tracer production. This review confirmed that experiments were reviewed and approved by the RS or referred to the ROC for approval as required. The review of current experiment authorizations, procedures, and related reactor log book entries and observation of two activation runs, confirmed that experiments were installed, performed, and removed as outlined in the approved experiment authorizations. The inspector also determined that the resulting radioisotopes that were produced were appropriately documented, controlled, and transferred as stipulated by procedure.

The inspector observed insertion of an experimental sample into the reactor and removal of another. The samples were handled as prescribed by procedure and in accordance with proper radiological controls. During the inspection, the inspector also conducted a radiation survey of the Reactor Bay and compared the readings detected with those found by the licensee. The results were comparable and no anomalies were noted.

c. Conclusions

Based on the records reviewed and activities observed, the inspectors determined that the control and performance of experiments were acceptable and in accordance with procedural and TS Section I requirements.

7. Fuel Handling

a. Inspection Scope (IP 69001)

To verify compliance with TS Sections D.6 and G, the inspectors reviewed selected aspects of:

- Fuel Element Location Board
- GSTR Fuel Book containing the various USGS TRIGA Reactor Fuel Element History sheets for all the elements at the facility
- Reactor Operations Logbooks Nos. 110 - 117
- fuel handling equipment and instrumentation
- fuel movement and examination records

- GSTR Procedure No. 4, "Procedure for Fuel Loading and Unloading," last reviewed April 29, 2002

b. Observations and Findings

The inspector reviewed the GSTR procedure for loading and unloading fuel, as well as fuel movement logs and inspection records. Fuel movement, inspection, log keeping, and data recording followed the guidance specified in the facility procedure and met TS Section D.6 requirements. Data recorded for fuel movement was clear and cross referenced in fuel and operations logs. Through review of the fuel movement and inspection records and interviews with operations staff, the inspector verified that fuel was moved and controlled according to established procedure and in accordance with TS requirements. The inspector also verified that fuel was being stored in the locations indicated by licensee records and as required in TS Section G.

c. Conclusions

Fuel handling activities and the documentation thereof were acceptable and in accordance with procedural and TS requirements.

8. Design Control

a. Inspection Scope (IP 69001)

The inspectors reviewed selected aspects of:

- facility design change records for the past two years
- facility configuration records
- GSTR Experiment Review Checklist

b. Observations and Findings

The inspector determined that design changes at the GSTR required a facility staff review followed by an ROC review and subsequent approval. Only one design change had been processed during the past two years. It involved replacement of the reactor console chart recorder with a new paperless chart recorder. The inspector reviewed the records and determined that the review had been performed as required and had been reviewed and approved by the ROC. From the review, the inspector also determined that ROC 10 CFR 50.59 reviews and approvals were focused on safety and met licensee program requirements.

c. Conclusions

Based on the records reviewed, the inspectors determined that the licensee's design change program was being implemented as required.

9. Operator Requalification

a. Inspection Scope (IP 69001)

To verify that the licensee was complying with the requirements of the operator requalification program, the inspectors reviewed selected aspects of:

- U.S. Geological Survey TRIGA Reactor Operator Requalification Program dated September 1989
- the effective dates of current operator licenses
- individual operator training records
- physical examination records
- operator competence evaluation and written examination records
- operator active duty status

b. Observations and Findings

The inspector reviewed training records and confirmed that licensed ROs and SROs attended lectures and completed reviews on the appropriate subject material required by the program. Individual requalification records also showed that annual operating performance exams and comprehensive written exams had been given as required by the plan. The inspector confirmed that the ROs and SROs had completed the required reactivity manipulations and the quarterly hours of operation required by the program. Each operator had also received a biennial medical exam as required by 10 CFR 55 Subpart C.

c. Conclusions

The requirements of the Operator Requalification Program were being met and the program was being acceptably implemented.

10. Emergency Preparedness

a. Inspection Scope (IP 69001)

The inspector reviewed selected aspects of:

- Emergency Plan implementing procedures
- emergency response facilities, supplies, equipment and instrumentation
- training records for the past two years
- offsite support agreements
- emergency drills and exercises for 2001 and 2002

b. Observations and Findings

The inspector reviewed the Emergency Plan (E-Plan) for the U.S. Geological Survey TRIGA Reactor Facility, dated June 2001, in use at the facility. The E-Plan was the same as the version most recently approved by the NRC. The E-Plan was audited

and reviewed at least biennially by the ROC as required by TS Section H.5. The implementing procedures were reviewed annually and revised as needed to ensure the effectiveness of the E-Plan. Through random checks of the emergency equipment and portable detection instrumentation, the inspector determined these resources were being maintained as required by the E-Plan. Through reviews of training records and drill summaries and critiques, and through interviews with GSTR personnel, the inspector confirmed that emergency response training was given as required by the E-Plan and that emergency responders were knowledgeable of the proper actions to take in case of an emergency. The inspector verified that support agreements with outside response organizations (e.g., the University of Colorado Hospital and Department of Energy, Rocky Flats Field Office) were in effect, had been updated as required, and were adequate. Emergency drills had been conducted as required by the E-Plan. Each drill provided a practical and reasonable test of the participants knowledge and skills. Critiques were held following the drills to discuss the strengths and weaknesses identified during the exercise and to develop possible solutions for any problems identified.

The inspector met with West Metro Fire Department personnel from Station No. 3 at the GSTR facility. A good working relationship between GSTR and Fire Department personnel was evident.

c. Conclusions

Based on the review of the implementation of the E-Plan and the response to the emergency drills, the inspector confirmed that the licensee's emergency preparedness program was being satisfactorily implemented.

11. Security

a. Inspection Scope (IP 81401 and 81421)

The inspector reviewed selected aspects of:

- security systems, equipment, and instruments
- security audits and responses
- ROM, Section 4.3, "Access Control," dated January 1995

b. Observations and Findings

The Physical Security Plan (PSP), Rev IX, dated June 2001, was the same as the latest revision approved by the NRC. The inspector toured the facility and confirmed that the physical protection systems (barriers and alarms), equipment, and instrumentation were as required by the PSP. The inspector also confirmed that the security checks, tests, verifications, and periodic audits were performed and tracked as required by the PSP. Corrective actions were taken when required. Access control was implemented as required by the PSP and ROM Sections 3 and 5. Response rosters were current and posted as required.

The inspector also conducted interviews with various Federal Protective Service (FPS) staff members, visited the FPS Denver Mega Center, and observed a security alarm check. Members of the FPS typically provided periodic patrols and initial response to incidents at the reactor. They were very knowledgeable of the reactor and their responsibilities in case of an emergency at the GSTR. The inspector also noted a good working relationship between the GSTR and FPS staff members.

c. Conclusions

Based on the review of the security measures taken by the licensee and observations of the facility and support organizations, the inspector found that the physical protection features of the GSTR facility, the equipment, and procedures satisfied the requirements of the PSP.

12. Material Control and Accountability

a. Inspection Scope (IP 85102)

The inspector reviewed selected aspects of:

- GSTR Special Nuclear Material (SNM) accountability program
- SNM inventory and locations
- accountability records and reports

b. Observations and Findings

Fuel burn-up and related measurements and calculations were found by the inspector to be acceptable and properly documented. The material control and accountability forms were properly prepared and fuel inventory and movement records were cross referenced with operations logbooks. The records also showed that the licensee was maintaining control of SNM storage areas as required. Physical inventories were conducted at least annually as required by 10 CFR 70.51(d). Nuclear Material Transaction Reports (DOE/NRC Form 741) and Material Status Reports (DOE/NRC Form 742) had been completed semiannually and submitted by the licensee to the appropriate regulatory agencies in a timely manner and as required by 10 CFR 74.13(1).

c. Conclusions

Based on review of the GSTR facility material control and accountability program, the inspector determined that the licensee's program for controlling and tracking SNM as required by 10 CFR Part 70 was being implemented acceptably.

13. Follow-up on Previous Open Items

a. Inspection Scope

The inspector reviewed the licensee's actions taken in response to previously a identified Unresolved Item (URI) as well as:

- GSTR Procedure No. 20, "Procedure for Radiation Instrument Calibration," last reviewed November 5, 2002

b. Observation and Findings

(Closed) URI 50-274/1998-201-01 - During an inspection in 1998, an Unresolved Item (URI) was identified concerning calibration of count rate meters to include alpha meters. During that inspection, the inspector determined that the licensee's meters were being calibrated at just one point on the intermediate range. This did not appear to meet industry standards for calibration parameters nor could it be determined whether or not the calibrations met the manufacturer's recommendations. GSTR staff indicated at that time that they would obtain the manufacturer's calibration recommendations and follow either the manufacturer or the industry recommended standard for calibrations.

In discussing this issue with the RSO during the current inspection and through a review of the calibration procedure, the inspector determined that count-rate meters are now being calibrated correctly in accordance with industry standards. This issue is considered closed.

c. Conclusions

One URI was reviewed, corrective actions were taken by the licensee, and the issue was closed.

14. Exit Meeting Summary

The inspector reviewed the inspection results with members of licensee management at the conclusion of the inspection on February 20, 2003. The licensee acknowledged the findings presented and did not identify as proprietary any of the material provided to or reviewed by the inspector during the inspection except the Physical Security Plan.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

A. Aakhus-Witt, Reactor Operator, GSTR
T. DeBey, Manager, GSTR and Reactor Supervisor
P. Helfer, Senior Reactor Operator, GSTR
D. Liles, U.S. Geological Survey RSO, Reactor Health Physicist, and Reactor Operator
R. Perryman, Senior Reactor Operator, GSTR
D. Wells, Associate Regional Geologist and Reactor Administrator

Other Personnel

J. Jackson, Program Manager, Denver Mega Center, FPS
T. Mc Kernan, Uniformed Field Officer, FPS
T. Richards, Captain, Station No. 3, West Metro Fire Department
D. Tyndell, WMD/HAZMAT Coordinator, FPS

INSPECTION PROCEDURE (IP) USED

IP 69001	Class II Research and Test Reactors
IP 81401	Plans, Procedures, and Reviews
IP 81421	Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance
IP 85102	Material Control and Accounting

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

50-274/1998-201-01 URI Update count-rate and alpha meter calibrations.

PARTIAL LIST OF ACRONYMS USED

ANSI	American National Standards Institute
E-Plan	Emergency Plan
FPS	Federal Protective Service
GSTR	Geological Survey TRIGA Reactor
LCO	Limiting Conditions for Operation
No(s).	Number(s)
NRC	Nuclear Regulatory Commission
PSP	Physical Security Plan
Rev	Revision
RO	Reactor Operator
ROC	Reactor Operations Committee
ROM	Reactor Operations Manual
RS	Reactor Supervisor
RSO	Radiation Safety Officer
SNM	Special Nuclear Material
SRO	Senior Reactor Operator
TS	Technical Specifications
URI	Unresolved Item

