

March 13, 2003

Dr. Sheldon Landsberger  
Reactor Administrator  
The University of Texas at Austin  
Pickle Research Campus, Building 159  
Mail Code R9000  
Austin, TX 78712-1024

SUBJECT: NRC INSPECTION REPORT NO. 50-602/2002-201

Dear Dr. Landsberger:

This refers to the inspection conducted on February 24-27, 2003, at your University of Texas TRIGA Mark-II Reactor facility. The enclosed report presents the results of that inspection.

Various aspects of your safety program were inspected including selective examinations of procedures and representative records. Interviews with personnel were also conducted. Based on the results of this inspection, no significant safety issues were identified.

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 Mr. 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. 50-602  
License No. R-129

Enclosure: NRC Inspection Report No. 50-602/2002-201  
cc w/enclosure: Please see next page

University of Texas

Docket No. 50-602

cc:

Governor's Budget and  
Planning Office  
P.O. Box 13561  
Austin, TX 78711

Bureau of Radiation Control  
State of Texas  
1100 West 49<sup>th</sup> Street  
Austin, TX 78756

Mr. Roger Mulder  
Office of the Governor  
P.O. Box 12428  
Austin, TX 78711

Sean O'Kelly, Associate Director  
Nuclear Engineering Teaching  
Laboratory  
The University of Texas at Austin  
10100 Burnet Road  
Austin, TX 78758

Dr. William Vernetson  
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: 50-602

License No: R-129

Report No: 50-602/2002-201

Licensee: University of Texas

Facility: University of Texas TRIGA Mark-II Reactor

Location: Pickle Research Campus, Bldg. 159  
10100 Burnet Road  
Austin, TX 78758

Dates: February 24-27, 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

This routine, announced inspection included onsite review of various aspects of the licensee's programs concerning conduct of operations and emergency preparedness as they relate to the licensee's Class II research and test reactor. The licensee's programs were directed toward the protection of public health and safety and were in compliance with NRC requirements. No safety concerns or violations of regulatory requirements were identified.

### Organizational Structure and Staffing

- Organizational structure and staffing met requirements specified in Technical Specifications (TS) Section 6.1.

### Review and Audit Functions

- Review and oversight functions required by TS Section 6.2 were acceptably completed by the Nuclear Reactor Committee.

### Operations

- Reactor operations and logs were acceptable and operations were carried out in accordance with procedural and TS requirements.

### Operator Licenses, Requalification, and Medical Activities

- The requalification program was up-to-date and being acceptably maintained.
- Medical examinations were being completed as required.

### Procedures and Procedural Compliance

- Facility procedures and document reviews satisfied TS Section 6.3 requirements and procedural compliance was acceptable.

### Fuel Handling and Movement

- Reactor fuel movements and inspections were made and documented in accordance with procedure.
- The fuel elements were being inspected on a biennial basis as required by the TS.

### Maintenance and Surveillance

- The facility maintenance program was being implemented as required by facility procedures.

- The program for surveillance and calibration of equipment was being implemented in accordance with TS requirements specified in Sections 3 and 4.

#### Experiments

- The program for the control of experiments satisfied regulatory and TS Section 6.4 requirements.

#### Design Change Functions

- 10 CFR 50.59 changes had been reviewed and approved by the Committee as required and none were determined to constitute a safety concern or question.

#### Emergency Preparedness

- The Emergency Plan and Emergency Implementation Procedures were being audited and reviewed annually as required.
- Letters of Agreements documenting emergency support to be provided by offsite agencies were being maintained and updated as required.
- Annual drills were being held and documentation was maintained concerning the follow-up critiques and subsequent corrective actions taken as needed.
- Emergency preparedness training for staff and offsite personnel was generally being conducted as stipulated in the Emergency Plan.

## REPORT DETAILS

### **Summary of Plant Status**

The licensee's one point one megawatt (1.1 Mw) TRIGA Mark-II Research and Test Reactor (RTR) continued normal, routine operations. A review of the applicable records indicated that the reactor was typically operated in support of education, laboratory experiments, service work, reactor surveillance, and operator training. During this inspection, the reactor was started up and operated on two days at varying power levels to conduct experiments.

### **1. Organizational Structure and Staffing**

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

To verify organizational structure and staffing requirements specified in Technical Specifications (TS) Section 6.1, Amendment Number (No.) 4, dated May 10, 2001, were being met, the inspector reviewed:

- organization and staffing for the Nuclear Engineering Teaching Laboratory (NETL) administrative controls and management responsibilities specified in the TS
- NETL Administrative Procedure, ADMIN-3, "Personnel and Operator Qualifications," Revision (Rev) 0, dated September 1991
- The University of Texas at Austin, NETL Annual Reports for 2000 and 2001

#### b. Observations and Findings

The operations organizational structure had not functionally changed since the last inspection (refer to NRC Inspection Report No. 50-602/2001-201). However, one Senior Reactor Operator had resigned since the last inspection. As a result, the operations staff consisted of two Senior Reactor Operators (SROs), including the Reactor Supervisor, and two Reactor Operators (ROs). Section III of the licensee's NETL Procedure, ADMIN-3, 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 NETL TRIGA Mark-II Reactor Facility personnel. The inspector's review of the operators' education, training, and experience confirmed that the reactor staff met ANSI 15.4 requirements. Staffing was as reported in the Annual Reports and as required by TS Section 6.1.1 Structure.

#### c. Conclusions

The organizational structure and functions were consistent with the requirements of TS Section 6.1.

### **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 6.2, the inspector reviewed:

- Nuclear Reactor (NR) Committee meeting minutes from April 2001 through the present
- completed audits and reviews for 2000 through 2002
- licensee's responses to the audits and reviews
- NETL Administrative Procedure, CHRTR, "Nuclear Reactor Committee Charter," dated September 1, 2000

b. Observations and Findings

The inspector reviewed the NR Committee meeting minutes from April 2001, to the present. The meeting minutes showed that the committee had met at the required frequency and had considered the types of topics outlined by the TS. The inspector determined that the membership of the NR Committee satisfied Charter and TS Section 6.2.1 requirements. Review of the meeting minutes indicated the committee provided guidance, direction and oversight, and ensured suitable use of the reactor.

The NR Committee meeting minutes, reviews, and audit records also showed that safety reviews and individual audits had been completed at the required frequency for the functional areas specified by TS Sections 6.2.3 and 6.2.4. Topics of the safety reviews and audits were consistent with TS requirements as well. The inspector noted that the safety reviews and audit findings appeared acceptable and the licensee responded and took corrective actions as appropriate.

c. Conclusions

Review and oversight functions required by TS Section 6.2 were acceptably completed by the NR Committee.

### 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 3 through 6:

- selected University of Texas (UT)-TRIGA ICS Console Operation Log sheets and the Maintenance Log for 2002 through the present
- selected Prestart Check sheets
- selected Startup-Shutdown Check sheets and the associated Experiment Startup-Shutdown Check sheets and Heat Exchanger Startup-Shutdown Check sheets for 2002 through the present
- selected Monthly Checklists for 2002 through the present
- Scram Log sheets and Startup Reactivity Calculation records from January 2002 to the present
- staffing for operations as required by TS Section 6.1.3



- selected startup, operational, and shutdown activities on February 26 and 27, 2003
- NETL Operation Procedure, OPER-1, "Startup - Shutdown Checks," Version (Ver) 1.00, dated May 3, 2002
- NETL Operation Procedure, OPER-2, "Reactor Startup and Shutdown," Ver 1.00, dated May 3, 2002
- NETL Operation Procedure, OPER-3, "Reactor Operation Modes," Ver 1.00, dated May 3, 2002
- NETL Operation Procedure, OPER-4, "Operation of Reactor Water Systems," Ver 1.00, dated May 3, 2002
- NETL Operation Procedure, OPER-5, "Operation of Air Confinement System," Ver 1.00, dated May 3, 2002
- NETL Operation Procedure, OPER-6, "Reactor Bay Systems," Ver 1.00, dated May 3, 2002

b. Observations and Findings

The inspector reviewed selected operation log sheets from January 2002 through the present. The inspector also reviewed various Daily Startup-Shutdown Checklists, the associated forms, and Monthly Checklists for the same period. Additionally, the inspector observed two reactor startups, one shutdown, and steady state operations during the inspection. Reactor operations were carried out in accordance with written procedures as required by TS Section 6.3. Information on the operational status of the facility was generally recorded accurately on the log sheets or on checklists as required by procedure. 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 TS Section 6.1.3.

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. Operator Licenses, Requalification, and Medical Activities**

a. Inspection Scope (IP 69001)

To determine that operator requalification activities and training were conducted as required and that medical requirements were met, the inspector reviewed:

- UT TRIGA Requalification Plan, Rev 1, dated November 1990
- active license status of all current operators
- logs and records of reactivity manipulations for the 2001 through the present for selected operators
- written examinations given during 2001 and 2002 for selected operators

- training lectures and records for the current training cycle
- medical examination records for selected operators
- NETL Administrative Procedure, ADMIN-3, "Personnel and Operator Qualifications," Rev 0, dated September 1991

b. Observations and Findings

As noted above, there are currently two qualified SROs and two ROs at the NETL. A review of all of the operators' licenses showed that they were current.

A review of the logs and records showed that training had been conducted in accordance with the licensee's requalification and training program. Training reviews and examinations had been documented as required. Records of quarterly reactor operations, reactivity manipulations, and SRO/RO activities were being maintained and the operators were completing the activities as required. Records indicating the completion of the annual and supervisory evaluations were also maintained. Annual written examinations were being completed as required or credit was taken by the licensee for the SRO/RO exams administered by the NRC to satisfy the requalification cycle exam requirements when applicable. The inspector noted that operators were receiving the required biennial medical examinations as well.

c. Conclusions

The requalification program was up-to-date and being acceptably maintained. Medical examinations were being completed as required.

## 5. Procedures and Procedural Compliance

a. Inspection Scope (IP 69001)

To determine whether facility procedures met the requirements outlined in TS Section 6.3, the inspector reviewed:

- Procedure Change Log including "Pen and Ink" change sheets
- NETL Administrative Procedure, ADMIN-1, "NETL Procedure Outline and Control," Ver 2.00, dated April 19, 2001
- NETL Health Physics Procedure, HP-1, "Radiation Monitoring - Personnel," Ver 2.00, dated November 8, 2000
- NETL Maintenance Procedure, MAIN-1, "Interlock and SCRAM Features," Ver 3.00, dated May 25, 2000
- NETL Surveillance Procedure, SURV-1, "Fuel Temperature Calibration," Rev 1, dated September 1991
- NETL Operation Procedure, OPER-1, "Startup - Shutdown Checks," Ver 1.00, dated May 3, 2002
- NETL Fuel Procedure, FUEL-1, "Movement of Fuel," Rev 0, dated June 1990
- procedural reviews and updates documented in the NR Committee meeting minutes

b. Observations and Findings

The procedures provided guidance for staff to conduct various activities in such categories as reactor operations, fuel movement, maintenance, surveillance, administrative control, health physics, emergency and security plan implementation, and experiments. A review of a procedure from each category indicated that NETL procedures were acceptable for the current facility status and staffing level. The inspector determined that the procedures were being audited, reviewed, and updated as needed. It was also noted that "pen and ink" changes and more significant changes to procedures were routinely presented to the NR Committee for review and approval. The inspector verified that the latest revisions to various procedures had been through this review and approval process as required.

The inspector observed various activities during this inspection including a reactor start up, steady state operation, shut down, and insertion of a sample into the 3L position in the core. It was noted that the operations were completed in accordance with the applicable procedures.

c. Conclusions

Facility procedures and document reviews satisfied TS Section 6.3 requirements. Procedural compliance was acceptable.

**6. Fuel Handling and Movement**

a. Inspection Scope (IP 69001)

In order to verify adherence to fuel handling and inspection requirements specified in TS Sections 3.1.4, 4.1.4, and 5.4, the inspector reviewed:

- selected UT-TRIGA ICS Console Operation Log sheets from January 1998 and January 2000, and from January 2002 through the present
- selected UT-TRIGA Fuel Movement Log and log sheets
- selected Core Arrangement sheets
- selected NETL Pool Configuration sheets
- NETL Fuel Procedure, FUEL-1, "Movement of Fuel," Rev 0, dated June 1990
- NETL Fuel Procedure, FUEL-2, "Movement of Experiments," Rev 0, dated June 1990
- NETL Maintenance Procedure, MAIN-5, "Fuel Inspection and Measurement," Ver 3.00, dated May 30, 2000

b. Observations and Findings

The inspector determined that the licensee was maintaining the required records of the various fuel movements that had been completed. The inspector also determined that the movements were conducted in compliance with procedure. The current core configuration was listed as the "3L" Configuration, No. 103F-5G-10W.

The inspector verified that the reactor fuel was being inspected upon initial receipt and biennially as required by TS Section 4.1.4. The procedure used for fuel inspection was acceptable and the radiological control requirements specified for these operations were adequate.

c. Conclusions

Reactor fuel movements and inspections were completed and documented in accordance with procedure and the fuel was being inspected as specified by TS.

**7. Maintenance and Surveillance**

a. Inspection Scope (IP 69001)

To determine that maintenance and surveillance activities and calibrations were being completed as required by TS Sections 3 and 4, the inspector reviewed:

- System Maintenance Log for 2002 through the present
- Weekly-Monthly Surveillance Log for 2002 through the present
- selected records and the associated forms related to maintenance and surveillance for 2001 through 2002
- selected UT-TRIGA ICS Console Operation Log sheets from January 1998 and January 2000, and from January 2002 through the present
- NETL Maintenance Procedure, MAIN-1, "Interlock and SCRAM Features," Ver 3.00, dated May 25, 2000
- NETL Maintenance Procedure, MAIN-2, "Instrument System Features," Ver 3.00, dated May 25, 2000
- NETL Maintenance Procedure, MAIN-3, "Support System Features," Ver 3.00, dated May 25, 2000
- NETL Maintenance Procedure, MAIN-6, "Rod and Drive Maintenance, Inspection," Ver 3.00, dated May 30, 2000
- NETL Surveillance Procedure, SURV-1, "Fuel Temperature Calibration," Rev 1, dated September 1991
- NETL Surveillance Procedure, SURV-2, "Reactor Pool Power Calibration," Rev 0, dated July 1991
- NETL Surveillance Procedure, SURV-3, "Excess Reactivity and Shutdown," Ver 2.00, dated April 3, 2002
- NETL Surveillance Procedure, SURV-4, "Reactor Water Systems Surveillance," Rev 1, dated September 1990
- NETL Surveillance Procedure, SURV-5, "Air Confinement System Surveillance," Ver 2.00, dated April 3, 2002

b. Observations and Findings

(1) Maintenance

The inspector reviewed selected maintenance procedures and maintenance records including the System 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 50.59 evaluation.

(2) Surveillance

The inspector reviewed selected surveillance procedures and records including the Weekly-Monthly Surveillance Log. The inspector determined that selected weekly, monthly, semiannual, and annual checks, tests, and/or calibrations for TS-required surveillances were completed as stipulated. The tests and calibrations reviewed were generally completed on schedule and in accordance with licensee procedures. All the recorded results were within the TS and procedurally prescribed parameters. The records and logs reviewed were accurate, complete, and being maintained as required.

c. Conclusions

The licensee's maintenance program was being implemented as required by NETL procedures. The program for surveillance and calibration of equipment was being carried out in accordance with TS Sections 3 and 4 requirements.

**8. Experiments**

a. Inspection Scope (IP 69001)

In order to verify that experiments were being reviewed, approved, and conducted within the guidelines specified in TS Section 6.4, the inspector reviewed:

- selected Routine and Special Experiments designated as Class A and Class B
- selected Experiment Authorization forms
- experiment review and approval by the NR Committee documented in the meeting minutes
- selected Irradiation Request forms for 2001 and 2002
- selected Operation Request Forms for 2002 to date with the associated Material Evaluation Sheets
- UT-TRIGA ICS Console Operation Log sheets from 2002 through the present
- NETL Administrative Procedure, ADMIN-6, "Authorization of Experiments," Rev 1, dated September 1991
- NETL Fuel Procedure, FUEL-2, "Movement of Experiments," Rev 0, dated June 1990
- NETL Experiment Procedure, EXP-PTS, "Pneumatic Transfer System," Ver 2.00, dated August 19, 1998
- NETL Experiment Procedure, EXP-B3.1, "Neutron Activation Analysis," Rev 0, dated January 1993

b. Observations and Findings

The inspector noted that most of the experiments conducted at the facility were generally well-established procedures that had been in place for several years; these

were the type of experiments known as Routine experiments. Special experiments were those that were typically authorized for one particular application. The inspector verified that the experiments in use at the facility had been reviewed and approved by the NR Committee. It was also noted that the experiments were analyzed to provide such information as physical effects including reactivity, thermal hydraulic potential, and mechanical stress; material evaluation including radioactivity and material hazards; and class of experiment.

The experiments were also classified as either Class A or Class B experiments. Class A experiments were those that were required to be conducted under the supervision of an SRO. Class B experiments were those of less significance or hazard and required the presence of an RO. There were four types of Class A experiments and four types of Class B experiments utilized at the facility.

The inspector verified that the experiments were conducted under the cognizance of an SRO or RO as required. The experiments and their results were documented on the proper Operation Request forms, Experiment Authorization forms, or Sample Irradiation or Exposure forms and in the Main Log as required. The resulting radioactive material was being controlled as stipulated by procedure.

c. Conclusions

The license's program for the control of experiments satisfied regulatory and TS Section 6.4 requirements.

**9. Design Change Functions**

a. Inspection Scope (IP 69001)

In order to determine whether modifications to the facility were consistent with 10 CFR 50.59 and TS Section 6.2, the inspector reviewed:

- NR Committee meeting minutes from September 2001 through the present
- completed audits and reviews for 2000 through 2002
- design changes reviewed under 10 CFR 50.59 for 2001 and 2002
- UT-TRIGA 10 CFR 50.59 Review Checklist - Evaluation of Changes, Tests, or Experiments
- NETL Administrative Procedure, ADMIN-2, "Design Features and Quality Control," Rev 1, dated September 1991

b. Observations and Findings

Through review of applicable records and interviews with licensee personnel, the inspector determined that each design or equipment change (10 CFR 50.59 review) that had been initiated and/or completed at the NETL during the past two years had undergone a review by the NR Committee as required. Following the review, the changes were approved in accordance with the TS requirements. It was noted that

none of the changes were determined to constitute a safety question or concern and none required a license amendment.



c. Conclusions

10 CFR 50.59 changes had been reviewed and approved by the NR Committee as required and none were determined to constitute a safety concern.

**10. Emergency Preparedness**

a. Inspection Scope (IP 69001)

The inspector reviewed selected aspects of:

- NETL Emergency Response Plan, Rev 1, dated November 1990
- Letters of Agreement with support organizations including the City of Austin Emergency Medical Services, City of Austin Fire Department, and the Brackenridge Hospital (a member of the Seton Healthcare Network)
- emergency response facilities, supplies, equipment, and instrumentation
- inventories of emergency response supplies, equipment, and instrumentation
- training records for the past two years
- emergency drills and exercises held during 2001 and 2002
- NETL Administrative Procedure, ADMIN-5, "Fire-Safety Protection Programs," Rev 0, dated September 1991
- NETL Emergency Procedure, PLAN-0, "Call and Notification," Ver 2.00, dated November 9, 2000
- NETL Emergency Procedure, PLAN-E, "Emergency Response," Ver 2.00, dated November 9, 2000

b. Observations and Findings

The Emergency Plan (E-Plan) in use at the reactor and emergency facilities was the same as the version most recently approved by the NRC. The E-Plan and implementing procedures were being audited and reviewed biennially as required and revised as needed. The inspector verified that emergency response facilities, supplies, instrumentation, and equipment were being maintained, controlled, and inventoried as required in the E-Plan.

Through records review and interviews with licensee personnel, the inspector determined that emergency responders were knowledgeable of the proper actions to take in case of an emergency. Agreements with outside response organizations were being maintained and had been updated biennially as required. Communications capabilities were acceptable and had been tested and emergency information updated as stipulated in the E-Plan.

Emergency drills had been conducted annually as required by the E-Plan. Off-site support organization participation was also as required. Critiques were held following the drills to discuss the strengths and weaknesses identified during the exercises and to develop possible solutions to any problems identified. The results of these critiques were documented. Emergency preparedness and response training for off-site and

reactor staff personnel was being conducted and documented as stipulated in the E-Plan.

The inspector also visited the Austin Fire Department Station No. 21 and spoke with members of the Special Operations/Hazardous Material unit that would respond to the NETL during an emergency if needed. The Station personnel were well equipped to handle such emergencies and there was a good working relationship between the personnel at the fire station and the licensee staff.

c. Conclusions

The emergency preparedness program was being conducted in accordance with the Emergency Plan.

**11. Follow-up on Previous Open Items**

a. Inspection Scope (IP 69001)

The inspector reviewed the licensee's actions taken in response to a previously identified Unresolved Item noted in NRC Inspection Report No. 50-602/2001-201:

- 50-602/2001-201-01 - URI - The licensee possessed plutonium-239 in a form and amount in excess of the license limits.

b. Observations and Findings

By letter dated March 6, 2001, the licensee reported that, through an internal audit, a violation of the R-129 license possession limit for plutonium had been identified. License R-129, Amendment No. 3, allowed possession of one gram of plutonium-239 in the form of reference materials. The previous license issued for use at the facility, License R-92, Amendment No. 6, dated 1970, had allowed possession of up to 150 grams of plutonium-239 in sealed "pins." The three subject "pins" were received from Argonne National Laboratory in 1971. With the decommissioning of the old reactor and the building and licensing of the present reactor, all fuel and special nuclear material was transferred to the new location and new license. The "pins" were physically transferred appropriately and had been stored, inventoried, leak tested, and reported on semiannual materials balance reports as required by 10 CFR Parts 70, 73, and 75, TS Section 5.3.3-Configuration, and licensee SNM procedures.

The licensee's investigation concluded that the necessary amount and form of plutonium was inadvertently left off the application for the new reactor license (R-129). An inspector reviewed this event and also reached the same conclusion. However, because the problem was not completely resolved during an inspection in August 2001 (refer to NRC Inspection Report No. 50-602/2001-201), this licensee-identified issue was noted during that inspection as an Unresolved Item pending the outcome of the licensing amendment action.

The licensee notified the NRC as required and, by letter dated April 13, 2001, requested a license amendment to increase the possession limits of Pu-239 to cover the inventory of the pins. After review by the NRC and resolution of some questions concerning the issue, the NRC issued a license amendment to increase the possession limits for Pu-239 on March 26, 2002. This issue is considered closed.

c. Conclusions

The Unresolved Item identified in NRC Inspection Report No. 50-602/2001-201 has been resolved and this issue is considered closed.

**12. Exit Interview**

The inspection scope and results were reviewed with the licensee on February 27, 2003. The inspector discussed the findings for each area reviewed. The licensee acknowledged the findings and did not identify as proprietary any of the material provided to or reviewed by the inspector during the inspection.

## PARTIAL LIST OF PERSONS CONTACTED

### Licensee

M. Krause	Reactor Supervisor and Senior Reactor Operator
S. Landsberger	Director, NETL
D. O'Kelly	Research Associate
S. O'Kelly	Associate Director, NETL and Acting Reactor Health Physicist
L. Welch	Reactor Operator
K. Witt	Reactor Operator

### Other Personnel

P. Fraiser	Captain, Station No. 21, Austin Fire Department
T. Haines	Engineering Associate, Special Operations, Austin Fire Department
S. Pennington	Radiation Safety Officer, University of Texas at Austin

## INSPECTION PROCEDURE USED

IP 69001      Class II Research and Test Reactors

## ITEMS OPENED, CLOSED, AND DISCUSSED

### Opened

None

### Closed

50-602/2001-201-01    URI      The licensee possessed plutonium-239 in a form and amount in excess of its license limits.

## PARTIAL LIST OF ACRONYMS USED

E-Plan	Emergency Plan
ICS	Instrumentation, Control, and Safety
Mw	Megawatt
NETL	Nuclear Engineering Teaching Laboratory
Nos.	Numbers
NR	Nuclear Reactor
NRC	Nuclear Regulatory Commission
RO	Reactor Operator
RSO	Radiation Safety Officer
RTR	Research and Test Reactor
SNM	Special Nuclear Material
SRO	Senior Reactor Operator
TS	Technical Specifications
URI	Unresolved Item
UT	University of Texas

Ver

Version