

TEXAS A&M UNIVERSITY

RADIATION PROTECTION PROGRAM: 2017 REVIEW

Environmental Health and Safety

Radiological Safety

June 2018

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INTRODUCTION

This document provides a review of the Radiation Protection Program for Texas A&M University over the 2017 calendar year. Topics covered include an overview of the Protection Program scope and organization, followed by a review of several specific elements. Components which are vital to the strength of the program, such as training and maintenance of ALARA practices, are appraised. In addition to these items, a review of routine practices, such as waste disposal, internal and external audits and inspections, and changes to the program, are discussed.

TEXAS A&M UNIVERSITY LICENSES

Texas A&M University holds several federal and state licenses and registrations, which authorize the use of byproduct radioactive materials, source materials, special nuclear materials, and radiation-producing devices (both ionizing and non-ionizing). In accordance with state and federal regulations (25 TAC §289.202 (e) (3) and 10 CFR 20.1101(c), respectively) this report reviews the activities conducted under the licenses and registrations for the calendar year 2017. An overview of the various licenses maintained by Texas A&M University is provided in Table 1.

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Table 1 – Licenses maintained at Texas A&M

License No.	Issuing Agency	Expiration Date	Description
42-09082-09	United States Nuclear Regulatory Commission (USNRC)	April 30, 2018	Radioactive Materials License, Use aboard JOIDES (SEDCO/BP 471) and any other TAMU research ship
L00448	Texas Department of State Health Services (TDSHS)	Sep 30, 2016 (under timely renewal) Amendment 150, October 2, 2017	Radioactive Materials License, TAMU and Galveston
L05683	Texas Department of State Health Services (TDSHS)	August 31, 2024 Amendment 35, December 13, 2017	Radioactive Materials License, TAMU, University Services Bldg., Riverside Campus, Prairie View A&M, Beeville, Bushland, Dallas, Lubbock, Overton, Plainview, Uvalde, Vernon and Weslaco
L06561	Texas Department of State Health Services (TDSHS)	July 31, 2023 Amendment 4, July 20, 2015	Radioactive Material License, Texas A&M University Cyclotron Institute
R00304	Texas Department of State Health Services (TDSHS)	September 30, 2023	Certificate of Registration (RPD), TAMU, Riverside Campus, Lufkin, TAES-Beeville, Prairie View A&M and Galveston
R14497	Texas Department of State Health Services (TDSHS)	February 28, 2018	Certificate of Registration (RPD), JOIDES (D/V SEDCO/BP-471 aka JOIDES Resolution)
Z00116	Texas Department of State Health Services (TDSHS)	April 30, 2019	Certificate of Registration (Laser), TAMU

42-09082-09

The U.S. Nuclear Regulatory Commission issues this license. It authorizes the University to use selected radionuclides at temporary job sites at sea aboard TAMU and other research vessels. No amendments were issued in 2017. The license expires on April 30, 2018.

L00448

The Texas Department of State Health Services issues this broad-scope license. It authorizes the University to use radioactive material in College Station and Galveston, Texas. The technical renewal for this license was submitted in August 2016. The license is under timely renewal. . There were five amendments issued in 2017. Amendment 146 was issued for addition of Pu-240 foils. Amendment 147 was issued for authorization of decay in storage and disposal. Amendment 148 for addition of new RSC members, amendment 149 for listing ex-officio members and the last amendment 150 was issued for authorization of feline release criteria following I-131 therapy.

L05683

The Texas Department of State Health Services issues this specific license. It authorizes the University to use radioactive material at designated remote sites inside Texas. Unlike license L00448, this license is relatively specific with regard to the radioactive materials that may be possessed, as well as the individuals authorized to use the materials. There were five amendments issued in 2017. Amendment 31 was for addition of Mn-54 foils for research and development. Amendment 32 was for adding a new site (Site 017) for storage of activated cyclotron components. Amendment 33 was for removal of some radionuclides from the license and to authorize the financial assurance obligations. Amendment 34 was removing the site (site 002) from storage of cyclotron components. Amendment 35 is for adding new PI at Prairie View A&M. The license expires on August 31, 2024.

L06561

The Texas Department of State Health Services issues this specific license. It authorizes the University to produce radioactive material for research and development at the Texas A&M University Cyclotron Institute in College Station, TX. Unlike the broad-scope license L00448, this license is relatively specific with regard to the radionuclides that can be produced using the cyclotron and the individuals authorized to possess and use those radionuclides. No amendments were issued in 2017 and the license expires on July 31, 2023.

R00304

This registration is issued by The Texas Department of State Health Services and authorizes the University to possess and use radiation producing devices on the College Station campus, with remote sites at Riverside Campus, Beeville, Prairie View A&M University, Galveston and

Lufkin. The registration was renewed and the expiration date is September 30, 2023. Two amendments were issued in 2017 for the addition of new X- ray units.

R14497

This registration, issued by The Texas Department of State Health Services, authorizes the University to possess and use a diffraction x-ray unit aboard the D/V SEDCO/BP-471. This vessel is also referred to as the JOIDES Resolution. No amendments were issued in 2017. The registration expires on February 28, 2018.

Z00116

This registration, issued by The Texas Department of State Health Services and authorizes the University to possess and use Class IIIB and Class IV lasers at the College Station campus. No amendments were issued 2017. The registration expires in April 30, 2019.

RADIOLOGICAL SAFETY PROGRAM ORGANIZATION

Radiological Safety Committee (LV)

The Radiological Safety Committee (RSC) advises the Texas A&M University administration on matters related to radiological safety and recommends policies and procedures it deems appropriate to ensure an adequate radiological safety program. The RSC consists of at least six voting members, including the Chair, appointed by the Vice President for Finance and Operations; plus three Ex Officio (non-voting) members as outlined below. The RSC acts as an advisory body to ensure that radioactive materials are safely used in accordance with As Low As Reasonably Achievable (ALARA) principles. The RSC also conducts a series of annual audits in which the entire program is reviewed over a period of three years. The RSC met four times during the 2017 calendar year, with the last meeting from 2016 postponed and conducted on February 2017.

Members	Department
John Ford, Ph.D., Chair	Nuclear Engineering
John T. Jaques, Ph.D.	Texas Veterinary Medical Diagnostic Laboratory
Won-Bo Shim, Ph.D.	Plant Pathology
Vladimir Horvat, Ph.D.	Cyclotron Institute
Brian Applegate, Ph.D.	Biomedical Engineering
Jay Griffin, DVM.	Large Animal Clinical Sciences
Hays S. Rye, Ph.D.	Biochemistry & Biophysics
Craig Mariano, Ph.D	Nuclear Engineering
Ursula Winzer-Serhan, Ph.D	Neurosciences & Experimental Therapeutics
Christopher M. Meyer, CHP, <i>Ex-Officio</i>	Office of Safety and Security
Latha Vasudevan, Ph.D., CHP, <i>Ex-Officio</i>	Radiological Safety Officer
Christina Robertson, CIH, CSP, <i>Ex-Officio</i>	Environmental Health and Safety

Radiological Safety Staff

The Radiological Safety Staff (RSS) consists of individuals employed by Environmental Health and Safety, under direction of the Radiological Safety Officer (RSO). In 2017, the RSS consisted of the RSO, two Senior Health Physicists /Asst. RSO, one Associate Health Physicist, one Asst. Health Physicist-IV, two Asst. Health Physicist-II, two Asst. Health Physicists-I, a Senior Office Associate, and 5-6 student technicians.

RADIOLOGICAL SAFETY PROGRAM ELEMENTS

Overview of Permits

Texas A&M Radiological Safety maintains three different kinds of radiation permits: Radioactive Material (RAM) permits; Radiation Producing Device (RPD) permits; and Laser permits. The NRC and DSHS licenses are blanket licenses for the entire university. To adequately maintain oversight, Radiological Safety issues permits, or sub-licenses, to principal investigators authorizing them to possess and use specific quantities of RAM or specific devices. As of December 2017, there were a total of 145 RAM permits, 65 RPD permits, and 90 Laser permits.

Radiological Safety Training

During 2017, several types of training were offered by EHS. There were a total of 38 classroom training sessions offered and 1968 people were trained (both classroom and online). EHS offers General Radiation Safety and Veterinary Radiation Safety class room training as well as online refresher training, online General Radiation Producing Device (RPD) training, and online General Laser Safety training. A summary of training provided by the Radiological Safety Staff in 2017 is displayed in Table 2.

Instrument Calibrations

Radiological Safety provides response check services for instrumentation used by labs. Radiological Safety also facilitates the shipping and paperwork for instruments requiring calibration by outside entities. In 2017, 46 portable survey instruments were sent to the manufacturer for calibration, and 85 instruments were provided functional response checks by RSS and verified to be operational with an acceptable efficiency.

Sealed Sources & Leak Tests

Radiological Safety provides leak test services to authorized users with certified sealed sources. These services are also provided, as a courtesy, to users possessing sources authorized under a

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general license. Leak tests are performed quarterly. In 2017, leak tests were performed for 90 sealed sources, as well as 29 generally licensed sources.

Table 2– Summary of training provided by RSS in 2017

Training Type	Number of Times Offered in 2017	Number of Individuals Completing Training
General Radiation Safety (Classroom)	13	219
General Radiation Safety (TTVN-Distance Learning for Remote Sites)	10	10
Veterinary Radiation Safety (Classroom)	15	269
General Laser Safety (Classroom and Online)	--	627
General Radiation Producing Device -RPD (Online)	--	278
General Radiation Safety Refresher (Online)	--	251
Veterinary Radiation Producing Device -Vet RPD (Online)	--	314
Total	38	1968

Special Nuclear Material

Special Nuclear Materials (SNM) that are possessed by the University should be accounted for and verified on an annual basis. The RSS performs inventory verifications and prepares reports as required by 10 CFR 74 and the Nuclear Material Management and Safeguards System (NMMSS). These NMMSS reports were filed for the period 12/1/2016-11/30/2017 and were reconciled in December 5, 2017.

Review of External Dosimetry Data

This section addresses external dosimetry for the calendar year 2017. Through the end of 2017, 1448 individuals were monitored for external occupational radiation exposure. Of those monitored, 777 had no reportable whole body deep dose equivalent (DDE) above background. Of the remaining 671 individuals, two received doses exceeding 10% of the whole body annual limit, or 500 mrem. The remainder received doses ranging from 1 mrem to 377 mrem. The total cumulative dose for all individuals monitored for the entire year was 18.1 person-rem. The average deep dose equivalent for those who received a measurable dose was approximately 21.4

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mrem. A summary of these data is provided in Table 3 and Figure 1. The average DDE values shown in this table are Deep dose equivalent averaged over individuals receiving a non-zero dose.

Personnel were also monitored for whole body shallow dose equivalent (or “skin dose”, SDE) and dose equivalent to the lens of the eye (LDE). The maximum SDE and LDE values were 978 mrem and 979 mrem, respectively. In addition to whole body dosimeters, some users were issued extremity dosimeters to measure dose to the hand, when applicable. The highest extremity shallow dose equivalent for 2017 was 1958 mrem.

The individuals with the highest dose reported work in Nuclear Medicine and diagnostic radiology at the Veterinary Teaching Hospital. Diagnostic and interventional procedures, such as X-ray, computed tomography, and fluoroscopy are common in the Veterinary Teaching Hospital, and account for the majority of dose received on campus.

Table 3 - Summary of whole body dose (DDE) by subaccount number

Account Code	Department	Number Measured	Number with Measured Dose	Cumulative DDE (mrem)	Avg. DDE (mrem)	Max. DDE (mrem)
716392	Athletic	2	0	M	M	M
716390	Beutel Health Center	2	0	M	M	M
716393	BIO/BIO	1	0	M	M	M
716482	CCCA (Teague) A	2	0	M	M	M
716398	CMP	1	0	M	M	M
716411	Cyclotron B	311	0	M	M	M
716411	Cyclotron C	319	11	72	7	16
716389	E Beam	5	5	23	4	7
1311-E93	EHS	31	12	448	38	377
716483	Nuclear Engineering A	21	13	513	40	376
716399	School of Rural Public Health	4	0	M	M	M
716366	Soil & Crop	4	3	13	5	8
1311-S24	Spares	13	11	175	16	47
716370	TAES	1	1	4	4	4
716401	TAES 2	3	1	6	6	6
716391	TIPS	33	7	84	12	41
716481-V00	4th Year Vet Students	334	298	6506	22	157

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716481-V01	LA Med Surgery	18	10	329	18	126
716481-V02	LA Resident Intern	21	18	180	10	38
716481-V03	SA Faculty Med	17	16	768	48	279
716481-V04	SA Specialist	24	22	536	25	98
716481-V05	SA Resident Intern	48	47	1099	28	203
716481-V06	Staff Anesthesiology	24	20	642	32	172
716481-V07	Staff Misc	7	5	49	10	20
716481-V08	Staff LA OR	23	21	300	15	82
716481-V09	Staff RAD	4	4	305	77	172
716481-V10	Staff SA SX	6	4	23	6	11
716481-V11	Staff SA OR	21	19	365	20	33
716481-V12	Staff SA ER	21	20	758	38	118
716481-V14	Staff SA Int MED	6	5	112	23	39
716481-V15	Staff SA Neuro	4	2	16	8	14
716481-V16	Staff SA Cardio	2	2	26	13	22
716481-V17	Staff SA Orthopedic	5	5	62	13	31
716481-V18	Staff SA Oncology	3	3	14	5	7
716481-V19	Staff SA Dental	1	1	19	19	19
716481-V20	Staff LA ICU	18	10	348	35	287
716481-V22	Staff LA MED	18	12	333	28	89
716481-V23	Staff SA Zoo Med	2	2	8	4	6
717483	GI Lab	18	17	261	16	42
716481-V91	Monthly Badges	35	33	3532	108	974
716400	Ward Ober	7	5	27	6	18
716484	LARR	5	5	62	13	20
717319	IBT	1	0	M	M	M
717462	Human Clinical	2	1	1	1	1

*M : “Minimal” indicates no measurable dose above background

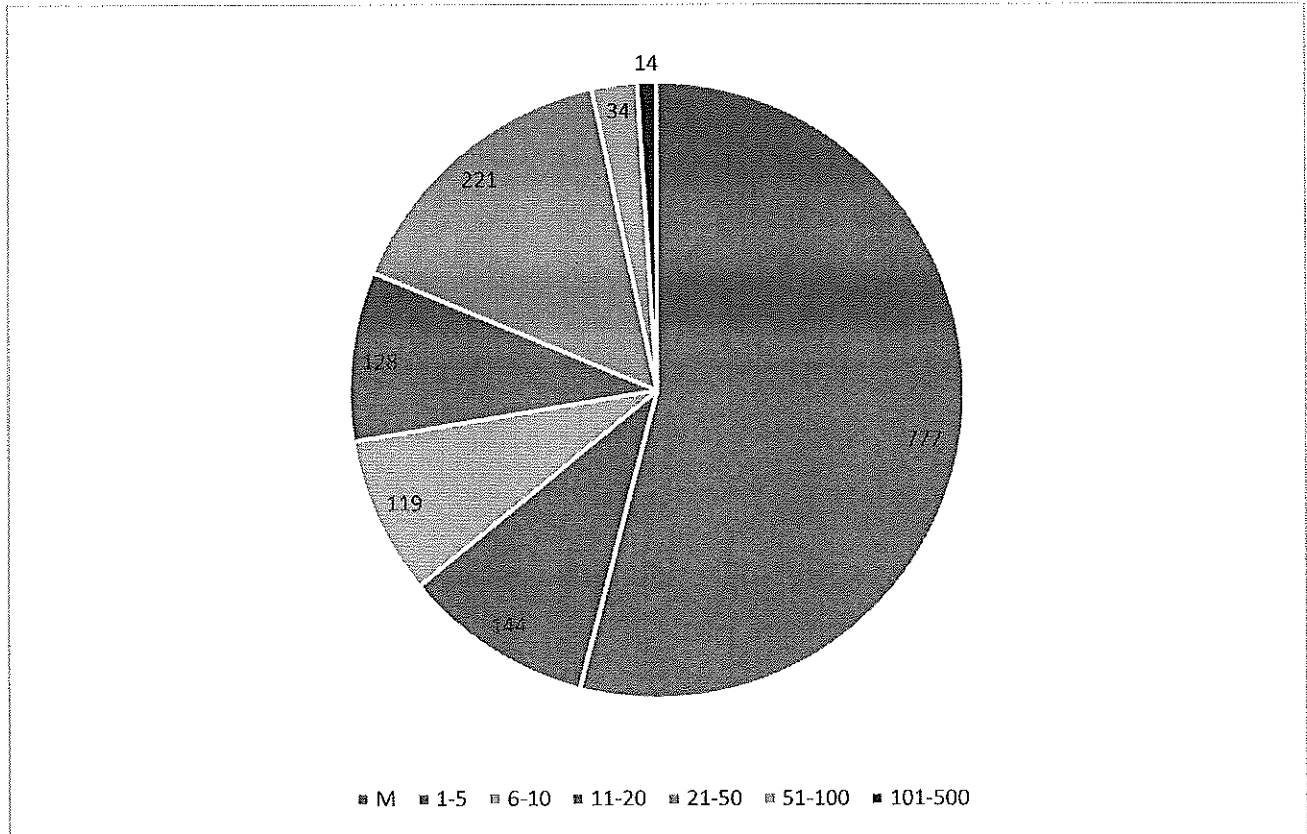


Figure 1 - The number of people receiving various values of whole body deep dose equivalent exposures is shown. M: “Minimal” indicates no measurable dose above background.

Review of Internal Dosimetry Data

Eighty routine and post-work thyroid screening bioassays were performed for I-125. No bioassays were performed for I-131. None of the bioassays performed required additional investigation.

Radioactive Waste Disposal

In 2017, three solid waste disposals to the local landfill were conducted via disposal methods allowed under the Texas Administrative Code (TAC), 25 TAC §289.202(fff)(1)(A), 25 TAC §289.202(fff)(1)B, 25 TAC §289.202(fff)(4) and 25 TAC §289.202(ggg)(7). On January 31, 2017, 2.78 m³ of short-lived waste containing F-18, P-32, I-125, and Au-198 for a total activity of 1.26 mCi, and 308 pounds of long lived waste containing H-3 and C-14 with an activity of 1.16 mCi was sent to the landfill. On August 16, 2017, 2.85 m³ of short-lived waste containing S-35 and I-125 for a total activity of 1.74 mCi and 380 pounds of long lived waste containing H-3 and C-14 with an activity of 1.89 mCi was sent to the landfill. Furthermore, on August 16, 2017, about 23.4 pounds of animal carcasses (mice) used for F-18 (half-life of 1.82 hours) diagnostic imaging studies were disposed in the landfill. Moreover, on August 16, 2017, about 14.4 pounds of animal carcasses (mice) containing 1.28×10^{-2} mCi I-125 (half-life of 59 days) were disposed in the landfill. Table 4 shows the summary of landfill disposals. On October 20, 2017, 5.03 m³ of short-lived waste containing F-18, P-32, S-35, and I-125 for a total activity of 5.29 mCi and 98 pounds of long lived waste containing C-14 with an activity of 2.5×10^{-5} mCi was sent to the landfill.

Five liquid waste disposals were conducted in 2017. The total activity of all radionuclides released via the sanitary sewer in 2017 was 2.26 mCi. The total activity concentration for the year was $9.81E-09 \mu\text{Ci mL}^{-1}$. The sum of the ratios of the radionuclides disposed was $2.94 E-04$ which is significantly less than 1. All of these values are well below the limits stated in 25 TAC 289.202 (gg) regarding the discharge of radionuclides via sanitary sewer. Table 5 shows the summary of liquid waste disposals.

Shipment of waste to an authorized low-level waste facility was conducted in 2017 through Bionomics, Inc. Three shipments were made in 2017. The first shipment was on February 6, 2017, the second shipment was on July 25, 2017 and the third shipment was on November 30, 2017. Table 6 shows the summary of waste disposed of through Bionomics.

Table 4 - Summary of 2017 Landfill Disposals

Date	Radionuclide	Volume (m ³) or Weight (pounds)	Activity (mCi)
01/31/2017	³ H and ¹⁴ C	308 pounds	1.16
	All Other Short Lived including ¹⁸ F	2.78 m ³	1.2647
08/18/2017	³ H and ¹⁴ C	380 pounds	1.89
	All Other Short Lived	2.85 m ³	1.74
10/19/2017	³ H and ¹⁴ C	98 pounds	2.50E-05
	All Other Short Lived including ¹⁸ F	5.03	5.29
08/16/2017	Carcass: ¹⁸ F	23.4	0 decayed
	Carcass: ¹²⁵ I	14.4 pounds	1.28E-02

Table 5 – Summary of 2017 Liquid Disposals to the Sanitary Sewer

Radionuclide	³ H	¹⁴ C	³² P	³⁵ S	¹²⁵ I
Yearly Total (mCi)	0.00367	0.00062	0.376	0.621	1.255
Activity Concentration (uCi/mL)	1.60E-11	2.68E-12	1.64E-09	2.70E-09	5.46E-09
25TAC289.202(gg) Table III limits (uCi/mL)	1E-02	3E-04	9E-05	1E-03	2E-05
Ratios of Concentration to limits	1.597E-09	8.924E-09	1.818E-05	2.70E-06	2.728E-04

Sum of the ratios : 2.94E-04 which is less than 1

Table 6 – Summary of 2017 Waste Disposals through Bionomics

Date	Number	Container	Category	Activity (mCi)
2/6/2017	1	55 gallon drum	Dry waste	1.966
	1	55 gallon plastic drum	Exempt LSC vials	0.078
7/25/2017	1	30 gallon	Aqueous liquid	0.0011
	4	55 gallon plastic drum	Vials (both exempt and LSC)	11.286
	4	55 gallon drum	Dry waste	3.545
11/30/2017	8	55 gallon drum	Dry waste	0.1169
	3	55 gallon drum	LSC vials	0.2594

POLICIES & PROCEDURES

The radiological safety program manual, radionuclide laboratory procedures manual were revised and submitted for review as part of license L00448 renewal.

Annual Radiological Safety Laboratory Reviews

In 2017, a total of 61 radiological safety laboratory reviews/inspections were performed on the TAMU main campus. Moreover, RSS completed inspections of 13 remote site permits under license L05683 and registration R00304. These reviews were conducted in addition to other visits to the labs such as package delivery, waste pickup, contamination/radiation surveys, etc. Laboratories that required follow-up visits by RSS due to minor discrepancies were completed.

Radiological Safety Committee Audit

Audit for Inventory/Receipt/Disposal was performed by Drs. Scott Jaques and Duncan Mackenzie on April 5, 2017.

Audit findings/recommendations:

- The system appears to be comprehensive and up to date with a few exceptions noted below. No major deficiencies were noted.
- There should be a quarterly review of requisitions to identify those which appear to be inactive. Investigators should be contacted to determine whether they still intend to complete the order and if not the order should be deactivated.
- It is important that RSO assure that locations distant from the main campus are audited annually to confirm that their inventories match records in the RSO database.

Paper records are still being used for a number of important procedures, including inventory tracking and disposal records.

- Environmental Health & Safety should identify funds to enable transition to the web-based product that will replace paper records to electronic formats.

RSS comment:

- Implemented quarterly review of requisitions in the system and added the appropriate updates.
- Inventories are being sent out to all PI (including PIs in remote site locations) twice a year and appropriate updates are maintained. Annual inspections/audits are being carried out to all remote site locations.
- Radiation Safety is looking into upgrading their existing EHSA software to web-based portal that may provide some future improvement on the overall program. Radiation Safety is also looking into Laserfiche for storing all electronic records instead of paper records.

Audit on Radiation Producing Devices (RPD) were completed by Drs. Horvat and Griffin on August 3, 2017.

Audit findings/recommendations:

- The audit did not identify any programmatic deficiencies
- RPD manual needs review
- EHS is heavily dependent on paper record system-suggest EHS migrates to a web-based paperless system with electronic signatures
- PI needs notification of lapses in training so that he/she can correct the deficiency
- A paperless system could also include a portal for the license holders, their department administrators to notify EHS of new hires, long absences, retirement, etc.

RSS Comment:

Radiation Safety is looking into upgrading their existing EHSA software to web-based portal that may provide some future improvement on the overall program.

Audit on Lasers were performed by Drs. Hays Rye and Benjamin Applegate on November 17, 2017

Audit findings/recommendations:

- The ability of the Radiation Safety Office to maintain a complete and up-to-date list of laser emitting devices within the Texas A&M system has some weaknesses. We encourage the Radiation Safety Office fully implement and strengthen the current approach.
- A problem was identified with the ability of the Radiation Safety Office to track laser systems that become the responsibility of the Texas A&M system as a result of a laboratory transfer or relocation from another institution to Texas A&M. The Radiation Safety Office is considering using regular contact with building proctors in departments in which lasers are actively used as a mechanism for learning of new laser systems that have arrived on campus. We encourage the Radiation Safety Office to continue searching for a systematic mechanism to address this issue.
- The Radiation Safety Office is heavily dependent on a paper record system for tracking permit verification reports, new permits and amendments, requests for decommissioning of older equipment, etc. We suggest that EHS migrates to a web-based paperless system with electronic signatures in order to more efficiently utilize human resources and minimize errors in data entry.

RSS comment:

Radiation Safety is implementing a web-based database system to track and manage the operations. Radiation Safety is also looking into migrating to laserfiche to keep electronic records of all documents.

State Inspections

L00448 (Site 000)- State inspection was performed on May 18, 2017. Three level- III violations were noted.

1. The Texas A&M Veterinary Hospital and Clinic performs diagnostic, therapy, or calibration using several different isotopes which are not listed as an authorized use on the license.
2. All employees transporting, or involved in the transport, of radioactive material on public highways had not been provided with the hazardous materials training required by USDOT 49 CFR Part 172: Subpart H, within the preceding 3 years.
3. The RSC met two times in 2016 on the following dates: April 27, 2016 and October 27, 2016; the minimum amount of meetings was not met.

RSS response:

1. TAMU was requested to submit an amendment to State with the Veterinary procedures for diagnosis and therapy. TAMU submitted an amendment for I-131 cat release criteria separately.
2. TAMU contested this violation as DOT awareness training was provided to nuclear medicine employee who performs package receipt. This violation was later rescinded.
3. In year 2016, since RSS was heavily involved in the AGN reactor move project, (RSC couldn't meet in December 2016 and was postponed to 2017 2017. The third RSC meeting for 2016 was held in February 2017 for completion.

L00448 (Site 011-Galveston) -State Inspection was performed on May 24, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site #010-Weslaco) - State Inspection was performed on January 9, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site 005-Lubbock)- State Inspection was performed on February 8, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site 007-Plainview)- State Inspection was performed on February 8, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site #008-Uvalde) - State Inspection was performed on April 17, 2017. Severity level IV violation was noted as the source information label on the source holder worn out and not legible. TAMU contested the violation and the violation was rescinded on June 5, 2017.

L05683 (Site 017-Northpoint Business Park)- State Inspection was performed on May 17, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site 016-Bushland)- State Inspection was performed on June 8, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

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L05683 (Site 004-Beeville)- State Inspection was performed on October 11, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site 000-College Station)- State Inspection was performed on December 1, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

L05683 (Site 012-University Drive East)- State Inspection was performed on December 1, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

R00304 (Site # 004-Prairie View A&M) - State inspection was performed on April 27, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

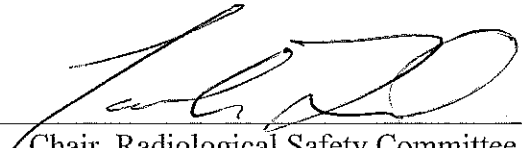
R00304 (Site # 010-Raymond Stotzer Parkway) – Remote inspection form was completed for this site on June 8, 2017. No discrepancies or violations noted and radiation safety program is in compliance.

Radiological Incidents/Events

No notable incidents.

Report Submitted By: Latha Vasudevan
Radiological Safety Officer

Date: July 5, 2018

Reviewed By: 
Chair, Radiological Safety Committee

Date: July 17, 2018