

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TEXAS 76011-8054

November 22, 1999

University of Montana ATTN: Dan Corti Radiation Safety Officer Missoula, Montana 59812-1387

SUBJECT: LICENSE AMENDMENT

Please find enclosed Amendment No. 31 to License No. 25-01706-03. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact me at (817) 860-8143.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public that can result from failure to comply with NRC requirements, you must conduct your radiation safety program according to the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

- 1. Operate by NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
- 2. Notify NRC in writing of any change in mailing address.
- 3. By 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. When you decide to terminate all activities involving materials authorized under the license; or
 - b. If you decide not to complete the facility, acquire equipment, or possess and use authorized material.
- 4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;
 - b. Order byproduct material more than the amount or form authorized on the license;
 - c. Add or change the areas or address(es) of use Identified in the license application or on the license; or
 - d. Change the name or ownership of your organization.
- 5. Submit a complete renewal application or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.

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University of Montana

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In addition, please note that NRC Form 313 requires the applicant, by signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

NRC will periodically inspect your radiation safety program. Failure to conduct your program according to NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC may result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), NURE(3 1600.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY VIVIAN H. CAMPBELL

Vivian H. Campbell Senior Radiation Specialist Nuclear Materials Licensing Branch

Docket: 030-00872 License: 25-01706-03 Control: 467548

Enclosures: As stated

University of Montana

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DOCUMENT NAME: P:\ To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

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OFFICIAL RECORD COPY

NRC FORM 374	U.S. NUCLEAR REGULATORY	COMMISSION	PAGE <u>1</u> OF <u>6</u> PAG Amendment No. 31
•	MATERIALS LI	CENSE	●'
Pursuant to the Atomic Energy Act of 19 of Federal Regulations, Chapter I, Parts heretofore made by the licensee, a licens source, and special nuclear material des deliver or transfer such material to persor shall be deemed to contain the condition applicable rules, regulations, and orders below.	30, 31, 32, 33, 34, 35, 36, 39 to is hereby issued authorizing i ignated below; to use such mains authorized to receive it in accounts as specified in Section 183 of the	, 40, and 70, and in relia the licensee to receive, a kerial for the purpose(s) ordance with the regulation to Atomic Energy Act of	ance on statements and representation equire, possess, and transfer byprodu- and at the place(s) designated below, ons of the applicable Part(s). This licer 1954, as amended, and is subject to
Licensee	•	In accordance with	letter dated
	I	Ortobor 2, 4000	· ·
1. University of Montana		3. License number 25-	01706-03 is amended in
	ARF	is entirety to read a	is follows:
2. Building 32	LEAN	4. Expiration date Aug	ust 31, 2005
Missoula, Montana 59812-138	7.5	5. Docket No. 030-00	872 · ·
 University of Montana Building 32 Missoula, Montana 59812-138 	<i>₽</i>	Reference No.	· · · · · · · · · · · · · · · · · · ·
6. Byproduct, source, and/or special // nuclear materia:	7. Chemical and/or physi		taximum amount that licensee may ossess at any one time under this cense
A. Any byproduct material wi Atomic Numbers 1-83, inclusive except as specifi below	8-11 [. Not to exceed 10 millicuries of each radionuclide excep
B. Hydrogen-3	And	LINI E	750 millicuries
C. Carbon-14	A MARKEN AND		; 100 millicuries
D. Phosphorus-32	D. Any U		. 750 millicuries
E. Sulfur-35	E. Any	E	. 50 millicuries
F. Chromium-51	F. Any T	F T	. 20 millicuries
G. Zinc-65	G. Any	G	6. 20 millicuries
H. lodine-125	H. Any	· · · · · · ·	
I. Nickel-63	I. Plated source Elmer Corp. N 0119 detector	s in Perkin- I. lodel 330-	_
J. Nickel-63	J. Plated source Elmer Corp. m	s in Perkin- J	. Not to exceed 15 millicuries per foil
			ML40
HON ADOLT 030	20872 UFFICIAL R	ECORD COPY	

NRC FOR	ZM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 2 of 8 PAGES	
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MATERIALS LICENSE			Docket or Reference Number 030-00872	
	SUPPLEMENTART SHEET		Amendment No. 31	
	luct, source, and r material	i/or special 7. Chemical and/or physical fo	m 8. Maximum amount that licensee may possess at any one time under this license	
К. А	mericium-244	either with NRC ur CFR 32.210 or with Agreement State incorporated in a compatible gaugin as specified in Iten	nder 10 50 millicuries h an and g device h 9 of this	
, L. C	esium-137	L. Sealed sources re either with NRC un EFR 32,210 or with Agreement State a	ider 10	
	compatible portable 3 compatible 3 compa			
•	horized use: hrough H.	Research and development as perined in animal studies; student instruction and d	Section 30.4 of 10 CFR Part 30, including	
l. a	nd J.	For use in gas chromatographs for samp	- P	
Ка	K and L. To be used, for measurement purposes, in portable Troxler Electronic Laboratories, Inc. or Campbell Pacific Nuclear/Boart Longyear Company gauging devices that have been registered either with NRC under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with an NRC or Agreement State specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.			
CONDITIONS				
10. A. Licensed material identified in Items 6.A. through 6.J. above shall be used only at the licensee's facilities located at:				
	(1) University of Montana campus, Missoula, Montana (2) Biological Station on Flathead Lake at Yellow Bay between Bigfork and Polson, Montana, and (3) the Lubrecht Experimental Forest, Greenough, Montana.			

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an for	B. Licensed material identified in Item 6.K. and 6.L. above may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating licensed material, including areas of exclusive Federal jurisdiction within Agreement States.				
contact is an ar Agreen	If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.				
	ensed material shall be used by, or under the supervised material shall be used by, or under the supervised by the supervised states of the superv				
B. Th	Fladiation Safety Officer for this license is Dan C				
to in f	2. A. Sealed sources and detector cells shall be lested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.				
B. No sha	B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination al-intervals not to exceed 3 months.				
6 п	C. In the absence of a certificate from a transferior indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.				
D. Sea	led sources need not be leak tested if:				
(i)	they contain only hydrogen-3; or				
(ii)	they contain only a radioactive gas; or				
(iii)	the half-life of the isotope is 30 days or less; or				
(iv)	they contain not more than 100 microcuries of b more than 10 microcuries of alpha emitting mate				
(v)	they are not designed to emit alpha particles, ar However, when they are removed from storage have not been tested within the required leak te transfer. No sealed source or detector cell shall without being tested for leakage and/or contamin	for use or transferred to another person, and st interval, they shall be tested before use or be stored for a period of more than 10 years			

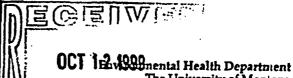
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on th conta with ' decou shall Com Divisi and c	eak test shall be capable of detecting the preserve test sample. If the test reveals the presence of mination, a report shall be filed with the U.S. Nu 10 CFR 30(b)(2), and the source shall be remove that minated, repaired, or disposed of in accordar be filed within 5 days of the date the leak test remission, Region IV, 611 Ryan Plaza Drive, Suite on of Nuclear Materials Safety. The report shall corrective action taken.	of 0.005 microcurie or more of removable aclear Regulatory Commission in accordance ed immediately from service and ace with Commission regulations. The report sult is known with the U.S. Nuclear Regulatory 400, Arlington, Texas 76011, ATTN: Director, specify the source involved, the test results,
	fically licensed by the Commission or an Agreen	
performed	ice, repair, cleaning, replacement, and disposal i only by the device manufacturer or other perso sement State to perform spicit services.	of foils contained in detector cells shall be a specifically authorized by the Commission
temp:	tor cells containing a titanium tritide foil of a sca nction with a property operating temperature cor erature from exceeding that specified by the man latory Commission.	in opinechanism which prevents the foil
B. When to the	n in use, detector cells containing a titarilum tritiq outside.	e foil or a scandium tritide foil shall be vented
unauthoriz	able nuclear gauge shall have a lock or outer loc zed or accidental removal of the sealed source fi must be locked when in transport, storage, or wh I user.	rom its shielded position. The gauge or its
authorizali combinati:	maintaining labeling as required by 10 CFR Par ion from NRC before making any changes in the on that would alter the description or specification on issued either by the Commission pursuant to	sealed source, device, or source-device ns as indicated in the respective Certificates of
performed	ing, maintenance, or repair of the gauge(s) that i only by the manufacturer or by other persons s t State to perform such services.	
feet, t the su	licensee uses sealed sources or probes containi the licensee shall use surface casing that extend urface and other appropriate procedures to reduc ning lodged below the surface.	s from the lowest depth to 12 inches above
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	beco licen CFR obtai Sealed so from sour The licen decay-In-	sealed source or a probe containing sealed source ornes apparent that efforts to recover the sealed s see shall notify the U.S. Nuclear Regulatory Com (30.50 (b)(2) and (c). The licensee shall not abar ining the Commission's prior written consent.	source or probe may not be successful, the mission and submit the report required by 10 ndon the sealed source or probe without rial shall not be opened or sources removed (// n a physical half-life of less than 65 days for d:
•	 10 ha B. Befo the a that i or ob C. A rec The i in sto dose 	alf-lives. The disposal as ordinary trash, byp)oduct material, ppropriate meter set on its most sensitive scale is ts radioactivity cannot be distinguished from pac- literated. April of each disposal permitted under this License the date of disposal, the date provide the date of disposal, the date prage, the radionuclides disposed, the surface of each waste con- mate measured at the surface of each waste con- timed the disposal.	shall be surveyed at the container surface with and with no interposed shielding to determine kground. All radiation labels shall be removed e Condition shall be retained for three years. on which the byproduct material was placed furrient used, the background dose rate, the
21.		see is authorized to transport licensed material of 71, "Packaging and Transportation of Radioactiv	
22.	licensed r	n to the possession limits in Item 8, the licensee a naterial to quantities less than 10 ⁴ times the appli and in 10 CFR 30.35(d).	
23.	licensed n	n to the possession limits in Item 8, the licensee s naterial to quantities less than 10 ¹⁰ time the appli and in 10 CFR 30.35(d).	
24.	material to	to the possession limits in Item 8, the licensee s quantities below the limits specified in 10 CFR 3 ergency plan for responding to a release of licens	30.72 which require consideration of the need
25.		ee shall conduct a physical inventory every 6 mc and possessed under the license.	onths to account for all sources and/or devices

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26. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.			
27. This license does not authorize commercial distribution of	licensed material.		
28. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license. $\sim NBBEC$			
29. The licensee shall not use licensed material in field application provided atherwise by specific condition of this license.	ations where activity is released except as		
 30. Except as specifically provided otherwise in this license. 30. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements/representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations. A. Application dated, June 16, 1995 B. Letter dated August 4, 1995 C. Letter received April 26, 1995 D. Letter dated October 3, 1995 			
NOV 2 1999 ORIGINAL Date	J.S. NUCLEAR REGULATORY COMMISSION SIGNED BY VIVIAN H. CAMPBELL vian H. Campbell, Senior Radiation Specialist uclear Materials Licensing Branch egion IV lington, Texas 76011		





The University of Montana Missoula, Montana 59812-1.387

DNMS

FAX: (406) 243-2335 E-mail: dcorti@selway.umt.edu

(406) 243-2881

Date: October 3, 1999

Nuclear Regulatory Commission 611 Ryan Plaza Drive Suite 400 Arlington, TX 76011-8604

Attention: Licensing Section

I am writing to notify the NRC of changes in our program and to request deletion of a sealed source from our license No. 25-01706-03, Docket No. 030-00872.

We have shipped our Troxler neutron gauge, model 3222, serial number 336, back to Troxler for disposal. Please see attached acknowledgment of receipt. I am not sure if this requires a license amendment given the wording in amendment 30 but if you feel that it does, please revise section 9 K. and L.

We have changed several of our procedures outlined in our license application dated June 16, 1995 as follows:

1. Control of Procurement and Use, Page 22, C is now done by the authorized user either faxing or emailing a completed copy of Radioactive Materials Order directly to Environmental Health where the RSO or RSOS calls the order in to the vendor. All fiscal accounting is now done within Environmental Health as well. We no longer use the old purchase order system that involved the Purchasing Department in Business Services. This change has given us much better control over purchasing and accounting for radioisotopes.

2. The Waste Management Section, page 43, first paragraph states that we do not intentionally release radioactive materials to the sanitary sewer. During our recent NRC inspection, we discussed this policy at length and have decided to change this policy. Please see the attached draft letter to the Missoula Wastewater Treatment Plant for details. We will not implement this policy change until you have had the opportunity to review and if necessary, comment on the policy.

3. Radiation Safety Committee Section 7.2 B., Membership page 8, states that we will have representatives from specific departments/divisions and at least 3 faculty members at all times. We would like to modify this by deleting the specific departmental references and keeping the requirement that all departments or groups currently using licensed radioactive materials shall be represented by a member of that department or group on the Radiation Safety Committee while still requiring at least 3 faculty members.

Thank you for your consideration of this request,

Sincerely. Dan Corti

Radiation Safety Officer





2() August 1999

UNIVERSITY OF MONTANA CONTROLLERS OFFICE 82:0201 2293 3120 Missoula, MT 59812 Please process payment in Banner. Please advise vendor that invoices should be addressed to your department address.

RECEIVED.

AUB 2 6 1999

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Mr. Dan Corti,

This is to acknowledge receipt of the below-referenced nuclear gauge under North Carolina Radioactive Materials License #032-0182-1. You should retain this letter in your files to document transfer of the gauge.

Model: 3222

S/N: 336

Received: 3 August 1999

Any questions may be directed to me at extension 178.

Sincerely,

1 lines 47

Robert S. Williams Service Department Supervisor

> TROXLER ELECTRONIC LABORATORIES, INC. P.O. Box 12057. Research Triangle Park, NC 27709 Telephone: 919-549-8661 Fax: 919-549-0761

Gene Connel, Industrial Pre-Treatment Coordinator Missoula Waste Water Treatment Plant 201 West Spruce Missoula, MT 59801

____1999

Dear Gene:

I am writing to follow up on our conversation about The University of Montana-Missoula changing its disposal practices for radioisotopes. I will provide the pertinent regulations and specify how we will demonstrate compliance with the regulations as well as describe the relative risk involved.

The Nuclear Regulatory Commission (NRC) regulates the use and disposal of all the radioisotopes used in research at The University of Montana-Missoula under the Code of Federal Regulations (CFR) Title 10, Chapter 1 Part 20 which reads in part:

Subpart K-Waste Disposal

20.2001 General requirements

(a) A licensee shall dispose of licensed material only--(1)by transfer to an authorized recipient as provided in 20.2006 or in the regulations in parts 30, 40, 60, 61, 70, or 72 of this chapter;or

(2) By decay in storage; or

(3) By release in effluents within the limits in 20.1301; or

(4) As authorized under 20.2002, 20.2003, 20.2004 or 20.2005

The University of Montana-Missoula is electing to use the procedures provided under 20.2003

20.2003 Disposal by release into sanitary sewerage.

(a) A licensee may discharge licensed material into sanitary sewerage if each of the following conditions is satisfied:

(1) The material is readily soluble (or is readily dispersible biological material) in water; and (2) The quantity of licensed or other radioactive material that the licensee shall release into the sewer in 1 month divided by the average monthly volume of water released into the sewer by the licensee does not exceed the concentration listed in table 3 of appendix B to 20.1001-20.2401 (Appendix B); and

(3) If more than one radionuclide is released, the following conditions are also satisfied:

DRAFT

(i) The licensee shall determine the fraction of the limit in table 3 of Appendix B represented by discharges into sanitary sewerage by dividing the actual monthly concentration of each radionuclide released by the licensee into the sewer by the concentration of the radionuclide listed in table 3 of Appendix B; and

(ii) The sum of the fractions for each radionuclide required by paragraph (a)(3)(1) of this section does not exceed unity; and

(4) The total quantity of licensed material and other radioactive material that the licensee releases into the sanitary sewerage does not exceed 5 curies of hydrogen-3 (H-3), 1 curie of carbon 14 (C-14) and 1 curie of all other radioactive materials combined.

(b) Excreta from individuals undergoing medical diagnosis or therapy with radioactive material are not subject to the limitations contained in paragraph (a) of this section.

All of the material we will be discharging is readily soluble or readily dispersible biological material as required in 20.2003 (a) (1). Compliance with 20.2003 (a) (2) is demonstrated as follows:

At this time we will only release H-3, C-14 and Sulfur-35 (S-35) to the sewer system. The Appendix B, Table 3 *Releases to Sewers: Monthly Average Concentration in microcuries/ml* is 0.01 for H-3; 0.0003 for C-14; and 0.001 for S-35. In the past 24 months we have generated a total of 30,186 microcuries of H-3 or 1257 microcuries/month; 16,949 microcuries of C-14 or 706 microcuries/month; and 8,000 microcuries of S-35 or 333 microcuries/month. Assuming a total flow through the Missoula Wastewater Treatment Plant of 270,000,000 gallons/month or 1,002,206,100,000 ml/month, the monthly average concentration of H-3 would be 0.000000001 microcuries/ml; the monthly average concentration of C-14 would be 0.000000006 microcuries/ml and the monthly average concentration of S-35 would be 0.000000003 microcuries/ml. The regulations pertain to the discharge of the licensee so that for regulatory purposes the average concentration in our discharge is what really matters.

Our average monthly discharge concentration based on the average annual flow from your billing records is as follows:

The annual discharge for 1996 and 1997 were 76.6 and 79.93 million gallons respectively, giving a monthly average discharge of 6.52 million gallons or 24,680,880,000 ml/month. The monthly average concentration going into the main equaled: 0.0000005 microcuries/ml of H-3; 0.000007 microcuries/ml of C-14 and 0.000003 microcuries/ml of S-35. These average concentrations are 43 to 20,000 times less than concentrations allowed by the Nuclear Regulatory Commission.

The sum of fractions for multiple radionuclides may not exceed unity as required by 20.2003 (a)(3). Our fractional equivalent for H-3 is 0.00005. For C-14 it is 0.023 and for S35 it is 0.003. This gives a total of 0.02605 or 0.03 in significant terms or 3 percent of unity.

20.2(103 (4) requires that our total radioisotope discharge not exceed maximum levels for specified radioisotopes. As shown above, we are multiple orders of magnitude below these specific limits.

It is important to understand the relative risk to the general public and wastewater treatment plant workers associated with this type of discharge to public sewer. Let me summarize by saying that the risk is immeasurably small. To illustrate this point, it is helpful to look at what the NRC considers allowable for worker exposure over the course of a year.

The NRC allows a worker to receive up to 5 rems or 5,000 millirems of ionizing radiation exposure each year. The employer is required to keep the dose As Low As Reasonably Achievable (ALARA) using all reasonable means. The NRC has concluded that a dose of 5 rems/year does not pose an unreasonable risk to workers. A rem is defined as the special unit of any quantities expressed as dose equivalent. The dose equivalent in rems is equal to the absorbed dose in rads multiplied by the quality factor. A rad is the special unit of absorbed dose. One rad is equal to an absorbed dose of 100 ergs/gram or 0.01 joule/kilogram. For those of us who are energy unit challenged, a rem of the beta emitters we are talking about is equivalent to about the same amount of energy it takes to light a 4 watt night lite bulb for one second.

To help predict the potential for exposure that would exceed the allowable occupational dose, the NRC has defined the allowable limit on intake (ALI) as the derived limit for the amount of radioactive material taken into the body of an adult worker by inhalation or ingestion in a year. ALI is the smaller value of intake of a given radionuclide in a year by the reference man that would result in a committed effective dose equivalent of 5 rem or a committed effective dose equivalent of 50 rems to any individual organ or tissue. (ALI values for intake by ingestion and by inhalation of selected radionuclides are given in Table 1, Columns 1 and 2 of appendix B to 20.1001-20.2401.

Appendix B lists the ALI for H-3 as 80,000 microcuries for both ingestion and inhalation compared to our average annual generation of 15,000 microcuries. For C-14, the ALI is 2,000 microcuries compared to our annual generation of 8,500 microcuries. The ALI for S-35 is 10,000 microcuries for ingestion and 2,000 microcuries for inhalation compared to our annual generation . of 4,000 microcuries. Since our 6.5 million gallons of wastewater is further diluted in the 270 million gallons that pass through the treatment plant annually, it seems reasonable to assume that the concentration and potential exposure to workers is truly below the level of any concern.

It is interesting to note that the unavoidable exposure from cosmic and terrestrial ionizing radiation in our area is about 200 millirem/year. Medical evaluations in the form of dental x-rays, mamnographies etc. add another 75-100 millirem per year per person. The highest exposure recorded in continual monitoring of individuals who have worked with radioisotopes for 20 plus years at The University of Montana-Missoula now stands at 120 millirems cumulative exposure.

I hope this has addressed any concerns you may have about our change in policy. If you have questions remaining, please feel free to contact me at 243-2881 and I will be happy to try and answer them.

FOR LFMS USE) RMATION FROM LTS EETWEEN: gram Code: 01100 tus Code: 0 Category: EX 3L . Date: 20050831 Comments: 170.11(A)(4) om Fin Assur Regd: Y License Fee Management Branch, ARM and Regional Licensing Sections 4 ee LICHNSE FEE TRANSMITTAL REGION λ. APPLICATION ATTACHED Applicant/Licenses: Received Date: Docket No: Control No: License No: Action Type: MONTANA, UNIVERSITY OF 19991012 3000872 45754 1. 7548 -01706-03 endment FEE ATTACHED Amount: Check No.: 2. OCT 2 0 1999 3. COMMENTS Signed Date Check £ t d B. LICENSE FEE MANAGE (ENT BRANCH (Check 1. Fee Category and Amount: EX 3] lestone 03 is entered ///) Fee Category and Amount: 1. Correct Fee Paid. Amendment Renewal 2'. Application may be processed for: \₩ 3. OTHER Ľ Signed Date ٠ -•?