IND a	110:50	PETY INSPECTION	8ie 7ile
ISENSTIA Za School of / Evansvill DOCKET NUMBER(S)	Jedicing	UNITED STATE REGION III OFFICE OF IN	S NUCLEAR REGULATORY COMMISSIO
DOCKET NUMBER(S)	e IN	799 ROOSEVEL	ILLINOIS 60137
030-09673			3/23/84
representative records, interviews	, with personnel, and observations	by the inspector. The findings	ation safety and to compliance with the Nuclear in consisted of selective examinations of procedures as a result of this inspection are as follows:
	tion, no vibiations were observed.		last inspection. We have no further questions on
	which is required to be por	sted in accordance with 10 CFR	19.11.
			was not properly posted to indicate the presence
B. Containers located in labeled to indicate the previous	nce of radioactive material. 10 CF		were not properly
frequencies: 10 CFR		License Cor	of sealed sources were not performed at the proper ndition Number
D. Records of		or License Condition Number	were not properly maintained.
F. Reports or notifications of	posted or otherwise made evaluation	ble. 10 CFR 19.11,	
SH. RSO has 70	t per form	ed the du	were not made in accordance
Survey Me	eters have	not been	calibrated
, Packages h	are not bee	ezse Cozal	tion 14.
as speciffied	Liz L.C.14	at the E	est Facility
y state that within 30 days the acti	ions described by me to the inspec	Tor will be take	riolations identified in the items checked above.
	rie in annual	THE THE LAKE OF TO COVERES THE	riolations identified in the items checked above, her response will be submitted unless required by

INDUSTRIAL - ACADEMIC INSPECTION REPORT

Inspection Report No. 2401	
Licensee (Name and Address)	` .
Indiana University Schoo	las Medicine
P.O. Box 3287 8	4
Examuillo IN 47732	
Micensee Contact: As Guthie	Telephone No. (3/2)-179-200
License No. 13-15734-01	Docket No. 030-09673
Lest Amendment No. 03	Date of Admendment: 1/15/81
Category: <u>G2</u>	Priority: Y
Date of Inspection: 3/23/84	
Type of Inspection: () Announced	() Initial
Unannounced	() Special
	Reinspection
	2
Summary of Findings and Action:	
() No Noncompliance, Clear 591 issue	d () Action on Previous N/C
Noncompliance, 591 issued	() Regional Action
() Noncompliance, Appendix A	() HQ Action
Laspector: Dames Mullaus	3/20/01
(Signature)	(Date Signed)
Approved: S. P. Lambe Gla DJS) 3/20/04
(Signature)	(Date Signed)

Revision: 10/81

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INDUSTRIAL - ACADEMIC INSPECTION REPORT

				Amendment No
01	Inspection:			
2NS1	PECTION HISTORY			
	Items of moncomplian	ce or safety it	sairub beted during	last inspection
	conducted on 7			
	Requirement		Corrected	
	MA			
	If any items of monc			Juring the last
	NIA			
	77			
ORGA	NIZATION			
	NIZATION Organizational atruct	ture as describe	d in application	or letter
a. (Organizational struct	ture as describe		or letter
• (Organizational atruct	; •	·	
a. (Organizational atruct	; •	·	Telephone No.:812-479-20
a. (Deted 8/29/78 List primary licenses	; •	·	
a. (Deted 8/29/78 List primary licenses	; •	·	
a. (Deted 8/29/78 List primary licenses Compent: Ray Dewry Hearce Gu	; •	·	
a. (Deted 8/29/78 List primary licenses Compent: Ray Dewry Hearce Gu	contact: Ag	·	
a. (Deted 8/29/78 List primary licenses Compent: Ray Dewry Hearce Gu	contact: Ag	Esthue Essist A A RSO	

3.	SUPPLARY OF LICENSED PROGRAM (Kind of progres, number of people, rate of use or
	quantities on hand, places and frequency of use, type, quantity and use as
	authorized).
	This small program uses mainly 4-3
	and C-14 you amounts for lollosotos.
	research Currently 3 sutharine of
	users are article fin this section.
	One wer is active at the en St
	- pailits and two at the west
	Bacilità, (3 haby tata ?)
	Category and priority of this license is appropriate: Yes No
	If "No" state new Category Priority .
4.	INTERNAL AUDITS ON INSPECTIONS
	a. Required by L/C or application: Yes No If "Yes":
	3) By whom RSO
	2) Frequency Routine le Announced: Unannounced:
	3) Scope Letter dotted 4/19/79 Notes + Po PSD (1) 01
V/c	Assure that routine inspections of all laboratories using
, –	or storing radioactive materials are performed and appro-
	47 Records maintained: YesNo
	경기에게 살 것 않는데 보다 내가 가장 하면 하는데 하는데 하는데 하면 하면 하면 하는데
	67 Period Reviewed:
	. Comment (responsibility of auditor or committee, management control):
	The RSO stated that labe have not
	been inspected great least 2 years.
	No records have been kent
	Corrective Action Labluille
	routinely inspected in the Buture.
	12/76

Res	raining required: YesNo
11	"Yes" is retrainging: CompleteIncomplete
1)	Are tests and/or examinations required: YesNo
2)	If "Yes" are records available: YesNo
3)	Reviewed test results: YesNo
4)	Period seviewed:
5)	Comment (per cent completed, test results, etc.):
Tr.	ining provided, but not covered above:
	tructions to workers in accord with 10CFR 19.12: Yes NoNo
La.	
Zas	
201	
Zos	

		WALLE LINGELLING LINGELINGS
	. ele	areline and keerbann's binchantee
	1)	Required by L/C or application: Yes No
	2)	Provided, but not required by L/C or application: YesNo
		Procedures reviewed: Yes & No
	4)	Appeared Adequate: Yes No
	5)	
b		nges in procedures since lest inspection: YesNo
	2)	Were changes authorized: YesNo
	Туре	ENTATION (a) of radiation survey instruments on hand as per 1/C, application or
		valent: YesNo
	1)	If "No" list changes:

The second of th
b. Capability of radiation survey instruments adequate for program:
c. Colibration of instruments required: Yes No
If "Yes" instruments calibrated in accord with requirementary .
Te Yes_ No west this program?
e. coment: 3 Survey Meters Maire not been calibro
by at least 5 years. Conetine action
Teters will be calibrated as
lequired
BATERIALS (
a. Radioactive material secured to prevent unauthorized removal from:
1) Restricted area: Yes No No
2) Unrestricted area (20.207): Yes No
b. Method of control appears adequate: Yes . No
s. Comment:
L> Licensee will submit Calibration scoredu
to perform their own calibrations is
assiqued. They combined is
-79-50-00-0
9. FACILITIES
a. Facilities described in letter or application: Yes
b. Facilities inspected: Yes No
c. Comen: Assert adequate
- maying

Coment: Appended Adequate CEIPT AND TRANSFER OF MATERIAL Procedures for picking up and receiving packages (10CFR 20.205 (b)) Yes	20.205 (b)(c)):	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	20.205 (b)(c)):	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Procedures for picking up and receiving packages (10CFR 20.205 (b) (Yes	2	Procedures for picking up and receiv
Yes	2	YesNo
1) Incoming shipments monitored: YesNo		
2) Records of monitoring maintained (10CFR 20.401(b)): Yes 3) Records reviewed by NRC inspector: YesNo 4) Period reviewed: Procedures for opening packages (10CFR 20.205(d)): YesNo Comment: A license e representative at each packages each packages		1) Incoming shipments monitored: 1
2) Records of monitoring maintained (10CFR 20.401(b)): Yes 3) Records reviewed by NRC inspector: YesNo 4) Period reviewed: Procedures for opening packages (10CFR 20.205(d)): YesNo Comment: A license e representative at each packages each packages		
4) Period reviewed: Procedures for opening packages (10CFR 20.205(d)): Yes	Yes No	
4) Period reviewed: Procedures for opening packages (10CFR 20.205(d)): Yes	10	3) Records reviewed by NRC inspects
Procedures for opening packages (10CFR 20.205(d)): YesN Coment: A license e representative at east packages		
A license representative at east packages	No	
a license representative at		22.00 (3.00 (2.00 (3.00)
ent parlity stated packages	+	Comment:
Jan Jana American	2	a license e repre
tested as required. They se year Consective action Packages in the Buture will	oges ko	The property and
tested as required. They se year Marketine action Parkages in the Buture will monitored a required	Luise	not been mon
Les year. Consective action Parkages in the Buture will	a séceiu	tested as recu
Parkages in the Buture will	Lonto	211124 000 21.00
Parkage & in the Buture will	1	
manifore of a securited	200	A CONTRACTOR
maniforent as dealisted	and h	Jackages much
The state of the s	ol .	monitored as

d. Records of receipt and transfer of material available (30.51(a); 40.61(a);
70.51(b)(1)): YesNo
1) If "Yes" review of records was made by inspector: Yes No
2) Persod Revseved: Random Same De
3) Comence: Not inspected at the east
- Borilita
e. Packages on hand meet labelling requirements (49CFR 173.399):
Yes_ No
commence: No parkages on hand
- manges of manac
f. Reports to commission required by L/C or regulation submitted:
YesNo
Comments:
PERSONNEL RADIATION PROTECTION - EXTERNAL
a. Film or TLD badge supplier Landaue
b. Badge exchange frequency (
c. Reports reviewed by A. Buthie
e. Records reviewed for period 1978 to 2/84 by NRC inspector
1. NRC forms or equivalent
1) MRG-4 (20.102(b)): Yes No Complete: Yes No
2) NRC-5 (20.401(a)): Yes No Complete: Yes No
Maximus whole body quarterly exposure: 140 mR
Maximum extermity quarterly exposure: N/A
and the state of t

22.

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	Pocket dosimeters used: YesNo
	1) Type used:
	2) Frequency of recharging:
	3) Frequency of reading:
4	4) Compent:
	Direct radiation surveys of restricted and/or unrestricted areas being made:
	1) Records of surveys being maintained: YesNo
	2) Records of surveys reviewed: Yes No
	3) Period reviewed:
•	4) coments: Wipes after experiments
	ONNEL RADIATION PROTECTION - INTERNAL
· ·	Potential for exposure of individuals to airborne radioactive materials
	exists: YesNo
	1) If "Yes" does program for monitoring and control exist: Yes No
1	2) Program for monitoring and control appears adequate: YesNo
	Comments:

13.

	If "Yes" were respiratory protection procedures reviewed:
	YesNo
	Respiratory protection procedures appear adequate: YesNo
3)	Comments:
810	passay program required: YesNo
1)	If "Yes" was bioassay program reviewed: Yes No
2)	사람이 사용하는 아이들이 나를 하는 것을 받아 있다. 나를 하는데 나는 사람이 되었다면 하는데 아이들에 바로 바람이 되었다면 하는데 아이들이 아이들이 아이들이 아니는데 아이들이 아이들이 아이들이 아니는데 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들
))	Coments: Not bor quantity
	1.4.2.00)
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	- ineset
	- inele man
De.	are and air samples
	- unexell
	Monitoring for airborne radioactivity is conducted (20.103):
	Monitoring for airborne radioactivity is conducted (20.103): YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo B. Records of monitoring reviewed: YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed:
)	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, b): YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed:_ c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, b): YesNo a. Records of smear surveys reviewed: YesNo
,	Monitoring for airborne radioactivity is conducted (20.103): YesNo a. Records of monitoring reviewed: YesNo b. Period reviewed: c. Records of monitoring appears adequate: YesNo Smear surveys being conducted (20.201, b): YesNo

•.	Leak tests required: YesNo
٠.	If "Yes" look tests conducted: YesNo
	Records of leak tests maintained: YesNo
•	Leak tests records reviewed: YesNo
•	Period reviewed:
•	Records of leak tests appear adequate: YesNoNo
	Comments:
	Byproduct saterial released to atmosphere and/or sever (20.106 and 20.3) Yes No
	Byproduct material released to atmosphere and/or sever (20.106 and 20.3) YesNo Records of releases or radioactive effluents maintained (20.401): YesNo 3) Period reviewed: Random som A P O
	Byproduct material released to atmosphere and/or sever (20.106 and 20.3) YesNo Records of releases or radioactive effluents maintained (20.401): YesNo 3) Period reviewed: Random som A P O
	Byproduct material released to atmosphere and/or sever (20.106 and 20.3) YesNo Records of releases or radioactive effluents maintained (20.401): YesNo 1) Period reviewed:
	Byproduct material released to atmosphere and/or sever (20.106 and 20.3) YesNo
	Byproduct enterial released to atmosphere and/or sever (20.106 and 20.3) YesNo
	Syproduct material released to atmosphere and/or sever (20.106 and 20.3 Yes
	Syproduct material released to atmosphere and/or sever (20.106 and 20.3) YesNo
	Syproduct material released to atmosphere and/or sever (20.106 and 20.3 Yes

Licensee in compliance with 10CFR 19.13 (reports to individuals): Yes		2) If "Yes" documentation appears adequate: YesNo				
Licensee in compliance with 10CFR 19.13 (reports to individuals): YesNo Licensee in compliance with 10CFR 20.405 (over exposures): YesNo						
Licensee in compliance with 10CFR 19.13 (reports to individuals): YesNo Licensee in compliance with 10CFR 20.405 (over exposures): YesNo	-					
YesNo	171	CATIONS AND REPORTS				
Yes No No		1/				
Yes No	Li	censes in compliance with 10CFR 20.403 (incidents):				
Licensee in compliance with 10CFR 20.402 (theft or loss):		censee in compliance with 10CFR 20.402 (theft or loss):				
Comments:						

-	CONMENTAL MONITORING PROGRAM
	Environmental Monitoring Program required: YesNo
	f "Yes" records reviewed: YesNo
,	Period reviewed:
	Records appeared adequate: YesNo
	If Environmental Program is not required, briefly describe any
	existing program:
ONT	IRMATORY MEASUREMENTS . No No
	Independent Basurements But by suspendents
	Comments (describe type, results, comparison with licensee results):
	No detertable activity
	No detertable activity

EDEPENDENT INSPE					
. Comest on ty	rpe of independent inspe	etton effort cond	lucted:		
	labras	eas sto	led		
	in application				
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