



OFICINA DEL RECTOR

January 16, 1981

J. Philip Stohr, Chief
Fuel Facility and Materials
Safety Branch
U. S. Nuclear Regulatory
Commission
101 Marietta St. N. W., Suite 3100
Atlanta, Georgia 30303

Dear Sir:

This is in response to your letter and appendix A,
notice of violation dated December 24, 1980.

1. It is correct that areas classified as medium level areas in the License Application dated October 16, 1978, were not surveyed weekly to determine radiation and contamination levels.
2. Due to the fact that radioactive materials arrive every Monday morning, HPO staff checks the packages and keeps records of the procedures followed for such inspection but results of radiation and contamination levels in Hot Room have not been also recorded in the HPO-Forms 09 and 010 made for recording results of radiation and contamination levels during regular radiation protection inspection procedures. Normally, on Monday morning all laboratories of Nuclear Medicine facilities show background levels exception made of the Hot Room.
3. Nuclear Medicine facilities are identified as areas of the Medical Sciences Campus where a greater risk of contamination and/or radiation exposures exist. Health Physics Office Staff is aware of such condition and maintains a continuous radiation monitoring of those areas and immediate emergency services. It is satisfactory to say that during the last calendar year, radiation exposures of Nuclear Medicine employees were far below the Investigational Levels of the ALARA Programs.

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

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J. Philip Stohr
January 16, 1981
Page 2

4. Starting December, 1, 1980 radiological surveys are being carried out weekly in areas used for the preparation of radiopharmaceuticals and elution of Mo-99/Tc-99m Generators (Please see enclosed Forms used to record the results of surveys and smears). Once a month weekly surveys are complemented with a comprehensive radiation safety inspection of each room where radioactive material is handled or stored.
5. December 1, 1980 is the date when full compliance has been achieved.

If any other additional information is required do not hesitate to contact us.

Cordially yours,



Norman Maldonado, M.D.
Chancellor
Medical Sciences Campus

NM/ege

H10-FORM
009

MSC-HEALTH PHYSICS OFFICE SURVEY REPORT

MONTH 12 YEAR 80

WEEKLY RADIATION SAFETY INSPECTION

Building CFER
Department Nuclear Medicine
Room General Facilities (A)
Date 12-1-80
Taken by J. R. Givens
Survey meter used GM VISION 491

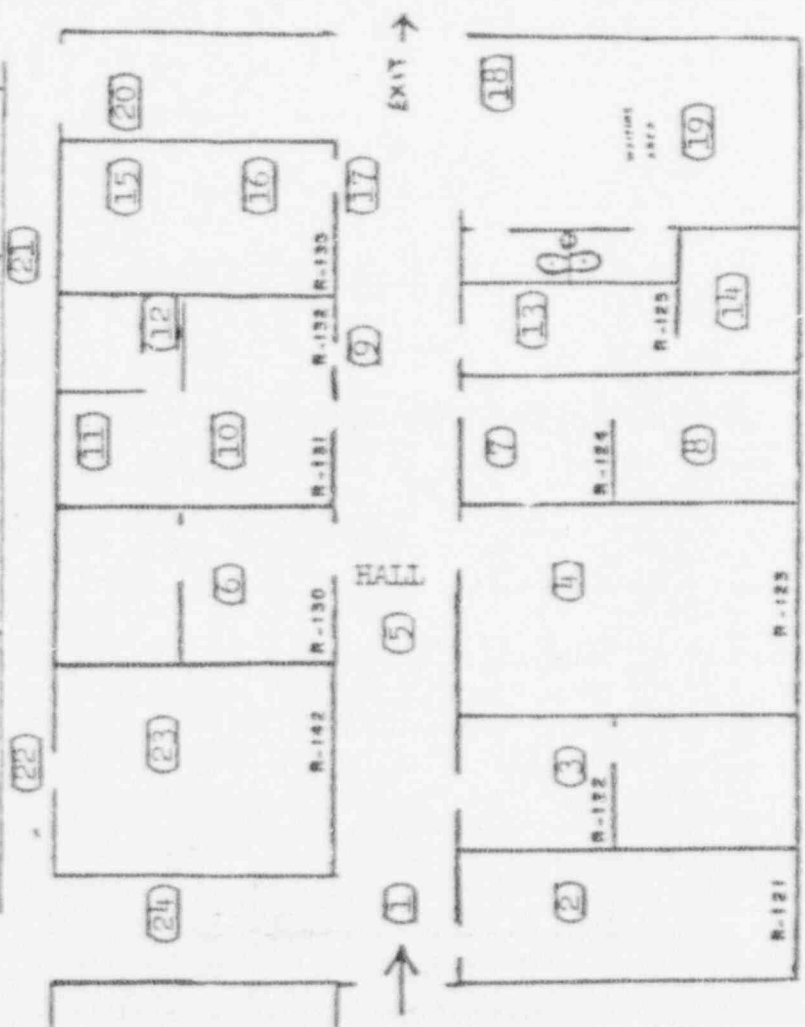
Background 0.020 r/h
 Beta-Gamma
 Alpha

Notify of results.
 Send copy of report to _____

[Signature]

Points of Survey	mr/hr	Points of Survey	mr/hr
(1)	0.02	(13)	0.05
(2)	0.02	(14)	0.05
(3)	0.02	(15)	1.5
(4)	0.25	(16)	0.08
(5)	1.5	(17)	0.07
(6)	0.04	(18)	0.10
(7)	0.02	(19)	0.90
(8)	0.02	(20)	0.04
(9)	0.04	(21)	0.02
(10)	0.04	(22)	0.02
(11)	0.04	(23)	0.02
(12)	0.03	(24)	0.02

Identification of points: (SURVEY DIAGRAM)



HPO-FORM
010

MSC-HEALTH PHYSICS OFFICE SMEARS REPORT

MONTH 12 YEAR 80

Building BIO-MEDICAL
 Department Nuclear Medicine
 Room General Facilities (B)
 Date 12-1-80
 Taken by J.R. CLARK
 Counted by J.R. CLARK
 Date counted 12-1-80

Notify
of results.

Notified

on ext.

To be counted for

ALPHA

Background

c/m

Geometry

BETA-Gamma

Background

c/m

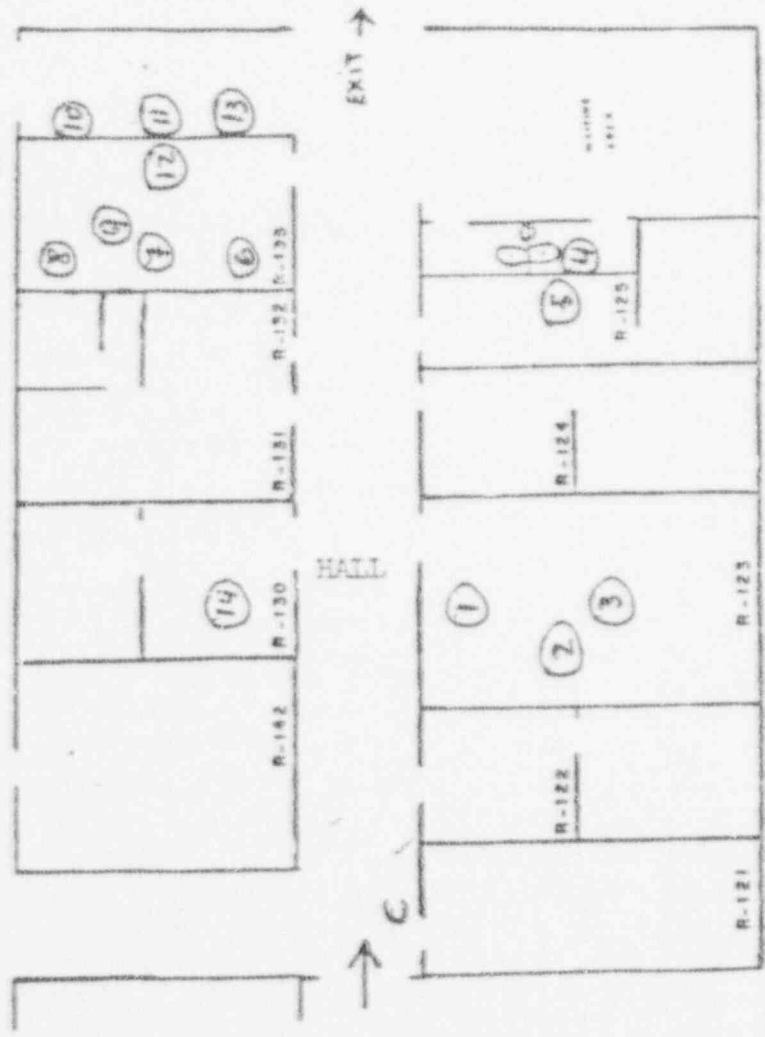
Geometry II

Send copy of report to

NET CPM

Sample Number	Beta-Gamma	Sample Number	Beta-Gamma
1	6	12	0
2	8	13	3
3	2	14	7
4	1		
5	0		
6	3		
7	3		
8	10		
9	4		
10	4		
11	3		

Identification of samples: (SMEAR DIAGRAM)



Remarks:

HFO-FORM
009

MSC-HEALTH PHYSICS OFFICE SURVEY REPORT

MONTH 12 YEAR 80

MONTHLY COMPREHENSIVE RADIATION SAFETY INSPECTION

Building CFER
Department Nuclear Medicine
Room General Facilities
Date 12-15-80
Taken by J.R. Cimargo
Survey meter used GM V. 02562491

Notify of results.

Send copy of report to

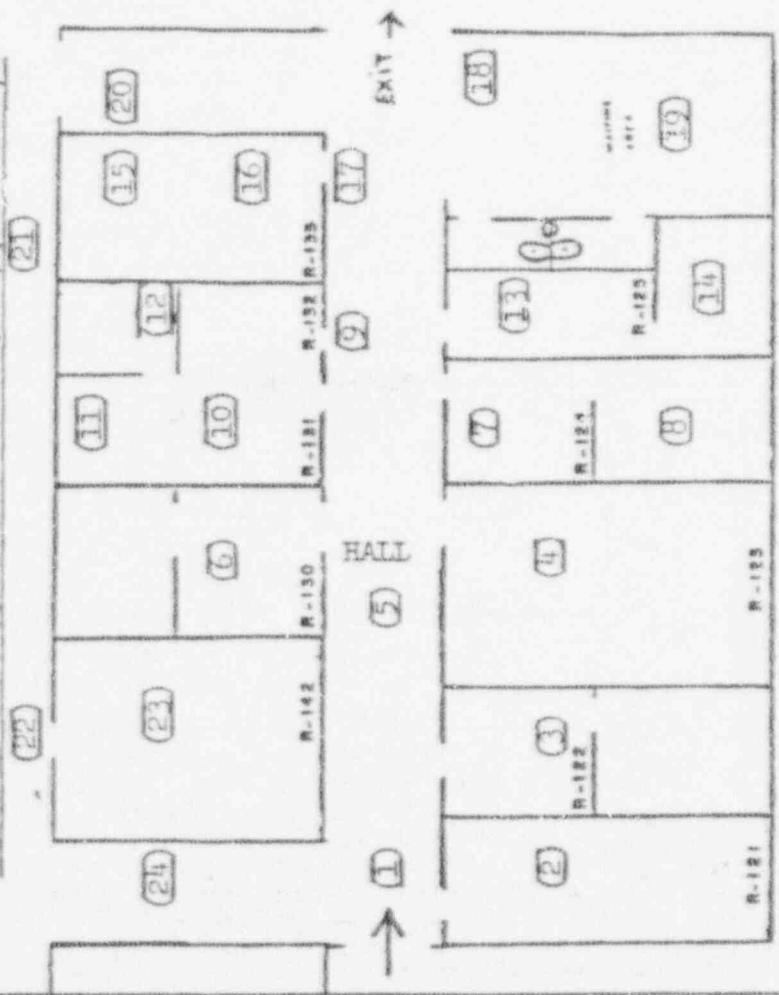
Background 0.02 mR/h.

Beta-Gamma

Alpha

Points of Survey	mr/hr	Points of Survey	mr/hr
(1)	0.02	(13)	0.04
(2)	0.02	(14)	0.04
(3)	0.03	(15)	0.25
(4)	0.10	(16)	0.08
(5)	0.05	(17)	0.06
(6)	0.04	(18)	0.08
(7)	0.03	(19)	1.0*
(8)	0.03	(20)	0.03
(9)	0.05	(21)	0.03
(10)	0.04	(22)	0.02
(11)	0.04	(23)	0.02
(12)	0.05	(24)	0.02

Identification of points: (SURVEY DIAGRAM)



REMARKS: * INTERFERE PATIENTS WAITING FOR X-RAY.

HFO-FORM
009

MSC-HEALTH PHYSICS OFFICE SURVEY REPORT

MONTH 12 YEAR 80

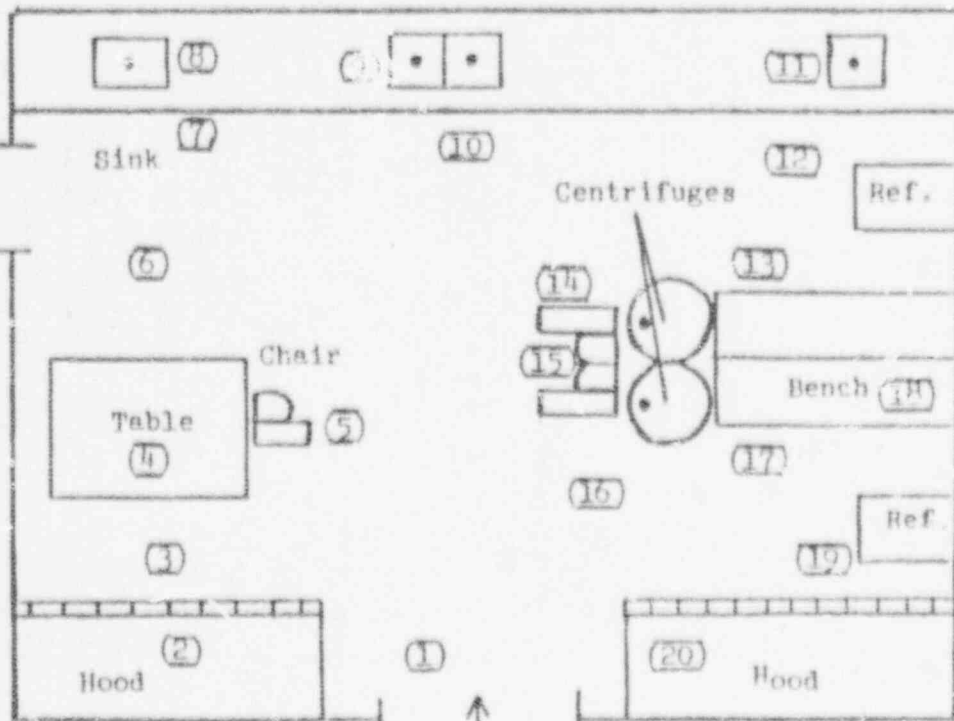
Building CEER
 Department Nuclear Medicine
 Room 105
 Date 12-15-80
 Taken by J. R. CITRON
 Survey meter used GM VILDBERG 491

Notify _____ of results.
 Send copy of report to _____

Background 2.02 rh.
 Beta-Gamma
 Alpha

Points of Survey	mr/hr	Points of Survey	mr/hr	
(1)	<i>Bgd</i>	(13)	<i>Bgd</i>	
(2)		(14)		
(3)		(15)		
(4)		(16)		
(5)		(17)		
(6)		(18)		
(7)		(19)		
(8)		(20)		
(9)				
(10)				
(11)				
(12)				

Identification of points: (SURVEY DIAGRAM)



Remarks:

WCO-PORIA
010

REC-HEALTH PHYSICS OFFICE SHEARS REPORT

MONTH 12 YEAR 1980

Building CEER
Department Nuclear Medicine

Room 105

Date 12/15/80

Taken by J. R. CINEY

Counted by J. R. CINEY

Date counted 12/15/80

Notify of results. Notify on ext. _____

Send copy of report to _____

To be counted for

BETA-Gamma

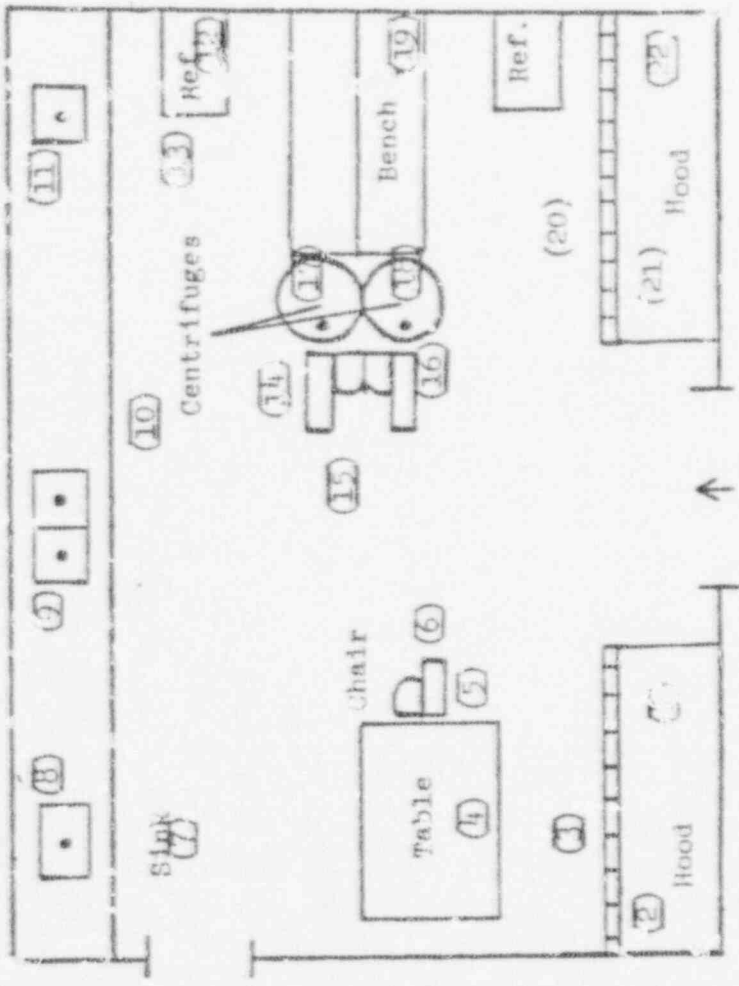
Background 8

Geometry II c/m

NET CPM

Sample Number	Beta-Gamma	Sample Number	Beta-Gamma
(1)	0	(12)	0
(2)	0	(13)	0
(3)	0	(14)	0
(4)	0	(15)	0
(5)	0	(16)	0
(6)	1	(17)	0
(7)	0	(18)	0
(8)	0	(19)	0
(9)	0	(20)	1
(10)	?	(21)	0
(11)	0	(22)	0

Identification of samples: (SEE FIG. DIAGRAM)



Remarks:

HPU-FORM
009

HEALTH PHYSICS OFFICE SURVEY REPORT

MONTH 12 YEAR '80

Building Bioscience
Department Nuclear Medicine Division
Room R-123

Date 12-15-80
Taken by J.R. CANNON
Survey meter used GM VICKERS-490

Notify of results.

Send copy of report to: _____

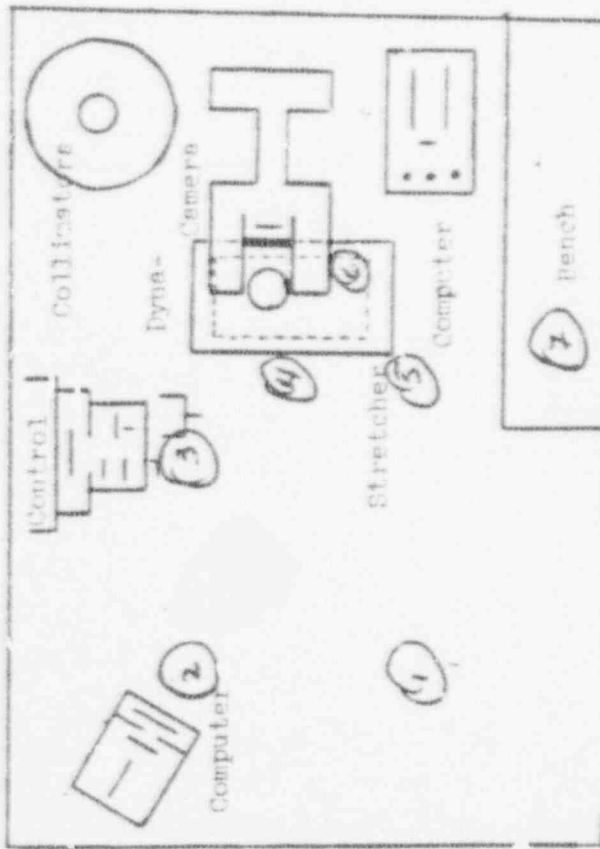
Background 0.03 ck.

Beta-Gamma

Alpha

Points of Survey	mr/hr	Points of Survey	mr/hr
1	0.04		
2	0.04		
3	0.04		
4	0.90		
5	0.15		
6	0.10		
7	0.06		

Identification of points: (SURVEY DIAGRAM)



Remarks:

KHO-FORM
010

MSC-HEALTH PHYSICS OFFICE SMEARS REPORT

MONTH 12 YEAR 80

Building Big Medicine
Department Research

Notify of results.

Notify of results. Notified

on ext. _____

To be counted for
 ALPHA
Background

Date 12-15-80
Taken by T.R. Curren

Send copy of report to

Send copy of report to _____

Counted by A.D. Curran
Date counted 12-15-80

BETA-Gamma

BETA-Gamma
Background

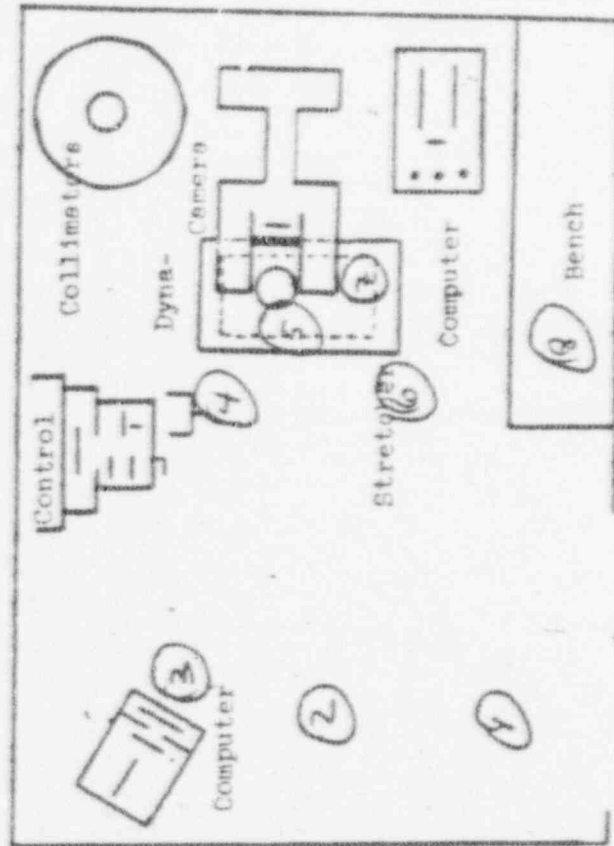
Geometry

Geometry

GROSS CPM

Sample Number	Beta-Gamma	Sample Number	Beta-Gamma
1	10		
2	12		
3	8		
4	8		
5	11		
6	11		
7	10		
8	13		

Identification of samples: (SMEARS DIAGRAM)



Remarks:

HPO-FORM
009

MHC-HEALTH PHYSICS OFFICE SURVEY REPORT

MONTH 12 YEAR 86

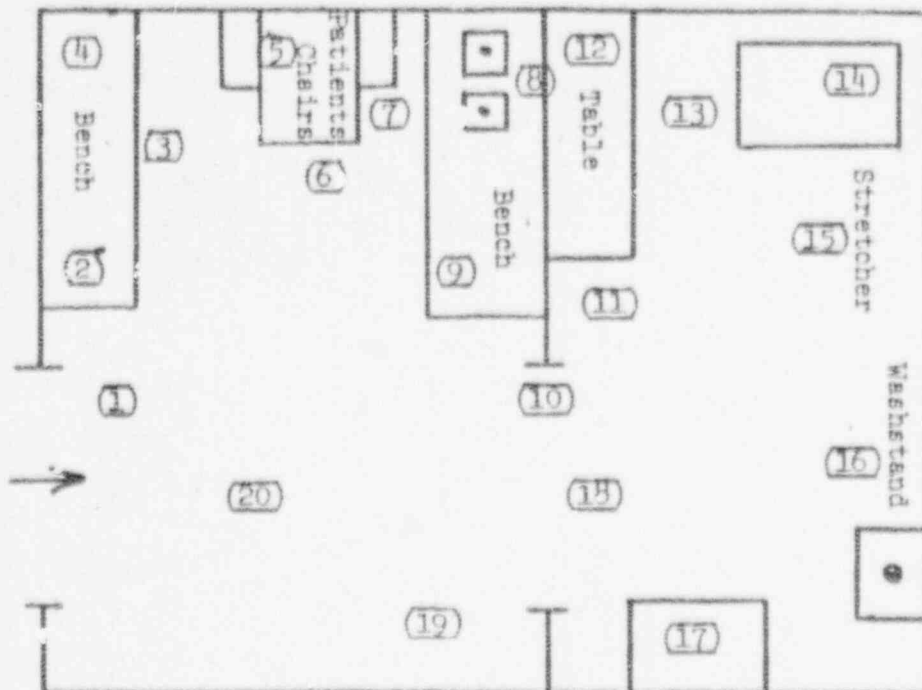
Building CEER
 Department Nuclear Medicine
 Room 130
 Date 12-15-80
 Taken by J. R. C. [Signature]
 Survey meter used G-M VICTOREEN 491

Notify _____ of results.
 Send copy of report to _____

Background 0.03 *rh*
 Beta-Gamma
 Alpha

Points of Survey	mr/hr	Points of Survey	mr/hr
(1)	0.03	(13)	
(2)	0.04	(14)	
(3)	0.04	(15)	
(4)	0.04	(16)	
(5)	0.06	(17)	
(6)	0.06	(18)	
(7)	0.05	(19)	
(8)	0.06	(20)	
(9)	0.04	(21)	
(10)		(22)	
(11)		(23)	
(12)		(24)	

Identification of points: (SURVEY DIAGRAM)



Remarks:

HUC-PORIA
010

HSC-HEALTH PHYSICS OFFICE SMEARS REPORT

MONTH 12 YEAR 80

Building CEER

Department Nuclear Medicine

Room 130

Date 12-15-80

Taken by J. R. C. ...

Counted by J. R. C. ...

Date counted 12-15-80

Notify of results. on ext. Notified

Send copy of report to

To be counted for

BETA-Gamma

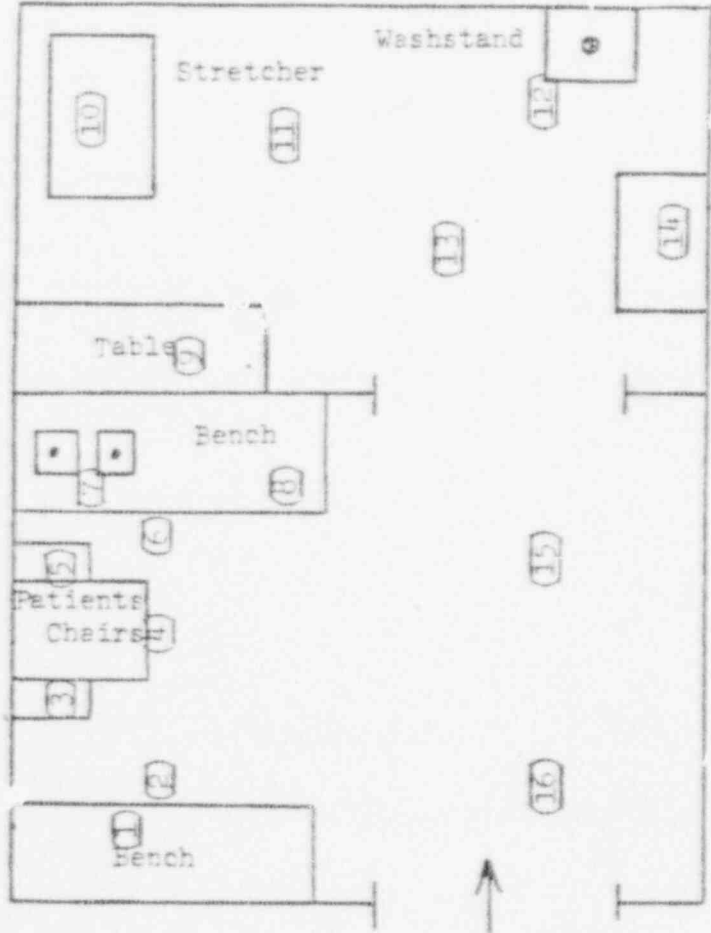
Background 8 c/m

Geometry IT

12035 cpm

Sample Number	Beta-Gamma	Sample Number	Beta-Gamma
(1)	10	(12)	
(2)	8	(13)	
(3)	9	(14)	
(4)	8	(15)	
(5)	10	(16)	
(6)	10		
(7)	11		
(8)	9		
(9)			
(10)			
(11)			

Identification of samples: (SMFARS DIAGRAM)



Remarks:

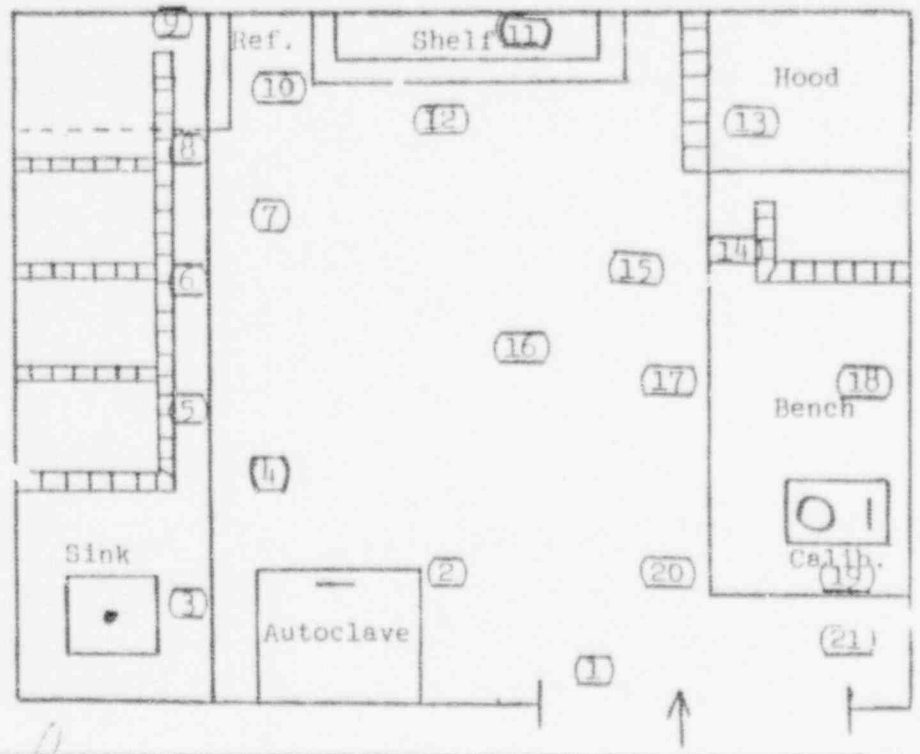
HIO-FORM 009	MSC-HEALTH PHYSICS OFFICE <u>SURVEY</u> REPORT	MONTH <u>12</u> YEAR <u>80</u>
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Building CEER
 Department Nuclear Medicine
 Room 133
 Date 12-15-80
 Taken by J.R. CANTON
 Survey meter used G.M. VILDRICH 491

<input type="checkbox"/> Notify _____ of results.	<input type="checkbox"/> Background <u>2.06 mR/h</u>
<input checked="" type="checkbox"/> Send copy of report to _____	<input checked="" type="checkbox"/> Beta-Gamma
	<input type="checkbox"/> Alpha

Points of Survey	mr/hr	Points of Survey	mr/hr
(1)	0.06	(13)	0.80
(2)	0.50	(14)	0.25
(3)	0.15	(15)	0.20
(4)	0.10	(16)	0.15
(5)	0.10	(17)	0.25
(6)	2.0*	(18)	0.09
(7)	0.20	(19)	0.06
(8)	0.40	(20)	0.08
(9)	0.20	(21)	0.06
(10)	0.10		
(11)	0.10		
(12)	0.04		

Identification of points: (SURVEY DIAGRAM)



* Toffin Ge-60 source calibration (12/15/80) by J.R. Canton

HC-100
010

HEALTH PHYSICS OFFICE SHEARS REPORT

MONTH 12 YEAR 52

Building CEER
Department Nuclear Medicine
Room 133

Date 12-15-50
Taken by J. R. CINDERS
Counted by J. R. CINDERS
Date counted 12-15-50

Notify _____ of results. Notified _____

Send copy of report to _____

To be counted for

BETA-Gamma

Background B

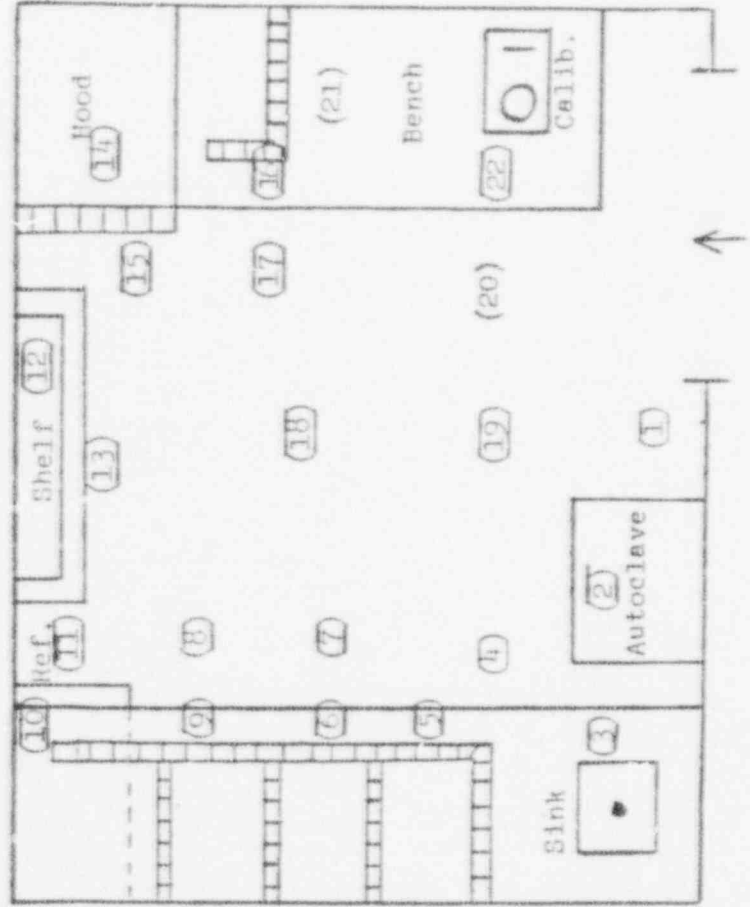
Geometry H

c/m

Gross CPM

Sample Number	Beta-Gamma	Sample Number	Beta-Gamma
(1)	9	(12)	5
(2)	11	(13)	10
(3)	7	(14)	8
(4)	11	(15)	65
(5)	12	(16)	11
(6)	9	(17)	13
(7)	13	(18)	17
(8)	9	(19)	7
(9)	3	(20)	8
(10)	11	(21)	10
(11)	7	(22)	8

Identification of samples: (SHEARS: DIAGRAM)



Items