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IL.6-8

UNITED STATES
ATOMIC ENERGY COMMISSION
CHICAGO OPERATIONS OFFICE
9800 SOUTH CASS AVENUE
ARGONNE, ILLINOIS 60439

TELEPHONE
(312) 739-7711

NOV 12 1974

Martin B. Biles, Director
Division of Operational Safety, HQ

RADIOLOGICAL CONDITION SURVEYS OF REAL PROPERTY

Reference: Memorandum, Bauer to Biles, dated 9/3/74

Enclosed for your information and use is a copy of the September 25, 1974, letter, Neal (ANL) to Manager (CH), with attachments which contain material supplementing that provided you in the referenced memorandum regarding buildings in the City of Chicago which formerly housed ANL and/or the Metallurgical Laboratory. The enclosure contains final radiation surveys and/or related information regarding:

1. 39th Street Warehouse
2. East Pavilion - Museum of Science and Industry
3. Ryerson Physical Laboratory
4. Drexel House (this has not been previously listed)
5. New Chem Annex
6. West Stands

This documentation substantiates our earlier statements that these facilities were decontaminated to normal background levels or to less than restoration levels as detected by the then available portable radiation detection instruments (not significantly different from modern ones) prior to termination of government control. Documentation of final survey results for a) Eckert Hall, b) Jones Lab, c) Ricketts Lab, d) Kent Chemistry Lab, e) the Small Animal Facility, and f) the National Guard Armory (all of which are still in existence) has not been located (see the last paragraph of page 2 of the enclosure for more information). However, personnel involved in these operations indicate that these facilities also were decontaminated to normal background levels or to less than restoration levels prior to their release. These individuals are W. Tyrrell, ANL, (who was involved in the

Martin B. Biles

- 2 -

NOV 12 1974

reclamation activities and was involved with all the above facilities), and J. Wing, OR, (who was a Health Physics Technician at the time of restoration activities and was involved with facilities a, b, and c above). It is possible to document testimony of several other persons who worked at the Metallurgical Laboratory, however, manpower for this effort is not available.

Based upon the available documentation, statements by personnel involved, and the possibility of contamination from other sources since termination of government control, we strongly recommend that no resurvey efforts regarding these facilities be initiated.

f. b. b. McSwain
Robert H. Bauer
Manager

SD:BJD

Enclosure:

Letter, Neal to Manager, CH, dated
9/25/74, w/enclosures

Telephone report, B. B. Biles - 11/15/74

*CH has determined the hot buildings are
Site B, the 347 I was above and the
with St George Township, no longer exist
they were demolished in 1960s. Site E
is now a paved parking lot.*

~~is now a paved parking lot~~

RHB

11/15/74



4-25
Baker
T-5

ARGONNE NATIONAL LABORATORY

September 25, 1974

Manager, Chicago Operations Office
U. S. Atomic Energy Commission
Argonne, Illinois 60439

Dear Sir:

DECOMMISSIONED AEC FACILITIES, CITY OF CHICAGO

- References:
1. Letter, R. H. Bauer to R. G. Sachs, 8/15/74
 2. Letter, H. V. Ross to Manager, CH, 11/15/73
 3. Letter, D. M. Gardiner to R. G. Sachs, 11/6/73
 4. Letter, H. V. Ross to C. C. McSwain, 9/2/71

A listing of buildings and/or facilities within the City of Chicago which had formerly housed Argonne National Laboratory and/or its predecessor, the Metallurgical Laboratory, was submitted as an attachment to reference 4 listed above. It was stated at that time and again in reference 2 that these facilities had been cleaned to normal background levels or to less than restoration levels as detected by the then available radiation detection instruments (0.2 mR/hr at 1" H&S beta-gamma and 500 d/m/100 cm² alpha). These statements were based upon the memory and recall of personnel involved in these operations (Mr. J. R. Novak and Mr. W. J. Tyrrell (ANL), Mr. J. H. Pingel (USAEC-CH-SD), and Mr. G. T. Lonergan (USAEC-RO, Glen Ellyn).

We have searched our records covering the early experiences of the Laboratory (ies) and are enclosing documents which reinforce the statements referred to above. A summary of those documents follows:

1. 39th Street Warehouse - Attachment 1

- A) Memorandum summarizing final surveys of this facility which was performed on 7/14/49. Attached to this memo is a survey map showing radiation levels before and after decontamination.
- B) Memorandum transmitting these results to the ANL Business Manager.

2. East Pavilion - Museum of Science and Industry - Attachment 2

- A) Memoranda requesting radiation survey.
- B) Memorandum itemizing final survey results of 7/12/49.
- C) Memorandum transmitting results to ANL Business Manager.

September 25, 1974

3. Ryerson Physical Lab - Attachment 3

- A) Memorandum detailing results of partial surveys of Ryerson prior to the return of some areas to the University of Chicago - 7/19/49.
- B) Survey sheet detailing survey results of the remainder of Ryerson prior to return of these areas to the University of Chicago - 1/19/52.
- C) Weekly report summarizing results of final surveys on Ryerson - 3/21/52.

4. Drexel House - Attachment 4

- A) Memorandum from ANL Director, W. H. Zinn, to the University of Chicago formally returning Drexel House to the University - 7/25/49.
- B) Memorandum requesting a survey - 7/27/49.
- C) Memorandum detailing results of the radiation survey - 8/4/49.
- D) Memorandum transmitting results to ANL Business Manager.
- E) Other memoranda asking for more detail.
- F) Memorandum from Director, Health Physics Division, clarifying final survey results - 8/24/49.

5. New Chem Annex - Attachment 5

- A) Weekly report itemizing final status of the Annex except for roof - period 3/17 to 3/23/52.
- B) Weekly report itemizing roof survey - period 3/24 to 3/30/52.
- C) Weekly report summarizing surveys performed after demolition was completed - period 8/11 to 8/17/52.

6. West Stands and New Chem

A file exists with detailed survey sheets and weekly summaries concerning the radiation safety coverage of the Restoration Program in these two areas. This file covers the period 11/12/51 through 12/14/52 during which time the decontamination of these two areas was proceeding. Continuous coverage was supplied by the Health Physics Division. Attachment #6 - a weekly report for the period ending 12/14/52 - indicates that final cleaning of New Chem was near. The walls had been cleaned and that the floor decontamination had begun. A final report of the radiation surveys of these two areas has not been located.

Although many files documenting surveys performed at Site B are available, documentation of final survey results for Site B and the other facilities listed in references 2 and 4 have not been located. These records were a part of four (4) boxes of radiation safety records covering the early Metallurgical Laboratory history that were destroyed inadvertently in the late 1950's. The destruction occurred because of a mistake by a records center technician who removed four (4) boxes from the "C" aisle rather than the "D" aisle. However, attachment number 3(B) - an original

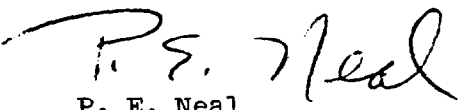
September 25, 1974

survey report date 1/14 to 1/19/54 - lists two surveys performed on items from Eckhart Hall. This indicates that surveys of other areas such as Eckhart, Kent, Jones, Ricketts, etc. might have been documented in the routine survey sheets for that period of time when the surveys were done. To uncover these surveys would be impossibly time consuming.

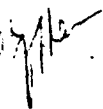
It is our opinion that the enclosed documentation amply reinforces the general statements that all restoration projects were covered by continuous Health Physics surveys and that the facilities listed in references 2 and 4 (and Drexel House) were decontaminated - where necessary - to levels below the minimum detectable levels of the radiation instruments available at that time.

It is suggested that should further documentation be desired that AEC and ANL personnel meet to discuss the direction and the amount of effort to be expended in such a search.

Very truly yours,


P. E. Neal
Associate Director

Attachments

In Duplicate 

July 19, 1949

J. H. McKinley

Business Manager

L. D. Marinelli

Health Physics

Complete Survey of 39th Street Warehouse for contamination

A thorough survey for contamination of the 39th Street Warehouse including soil surface, sheds and loading platforms in the rear yard, was completed July 7, 1949. On the accompanying map are indicated the locations and degree of contamination.

Also indicated in thousands (K) of alpha disintegrations per minute and in milliroentgens per hour at one inch soft (S) or hard (H) are the levels of contamination after decontamination by a Reclamation Service Crew. This indicates the present state of the building and grounds, which are below acceptable levels.

Instruments used were portable alpha counters, portable alpha floor counter, and portable GM counters. Surveying was done by J. Mitchell, G. O. Payas, and J. E. Pingal.

Enc.

L. D. Marinelli
Associate Director
Health Physics Division

LCM:amr

cc: J. E. Rose
Reading File

ARGONNE NATIONAL LABORATORY

DATE July 19, 1949

TO J. E. Rose and L. D. Marinelli DEPARTMENT
FROM G. O. Payne and J. H. Pingel DEPARTMENT
SUBJECT Final Survey of 39th Street Warehouse

A survey for contamination of the 39th Street Warehouse including soil surface sheds and loading platforms in the rear yard was completed July 7, 1949. Contaminated areas found in the building, the yard, and on equipment remaining in the building, are indicated on the accompanying map. Contaminated articles found and removed from the building by Reclamation Service and portable counter readings of the contaminant are as follows:

Table Top, 2-15M; 3/1" S.

Four 10-gal. cans being used in the basement for ashes, 2-30M; 10/1" S.
(One marked "Return to Site B")

One Trash Can, 10M; 1/1" S.

Piece of paper (from container of HF+U Solution) 18/1" S.

Instruments used were portable alpha counters, portable alpha floor counter, and portable GM counters. Surveying was done by J. Mitchell, G. O. Payne, and J. H. Pingel.

George O. Payne
G. O. Payne
Health Physics

J. H. Pingel
Health Physics

John H. Pingel

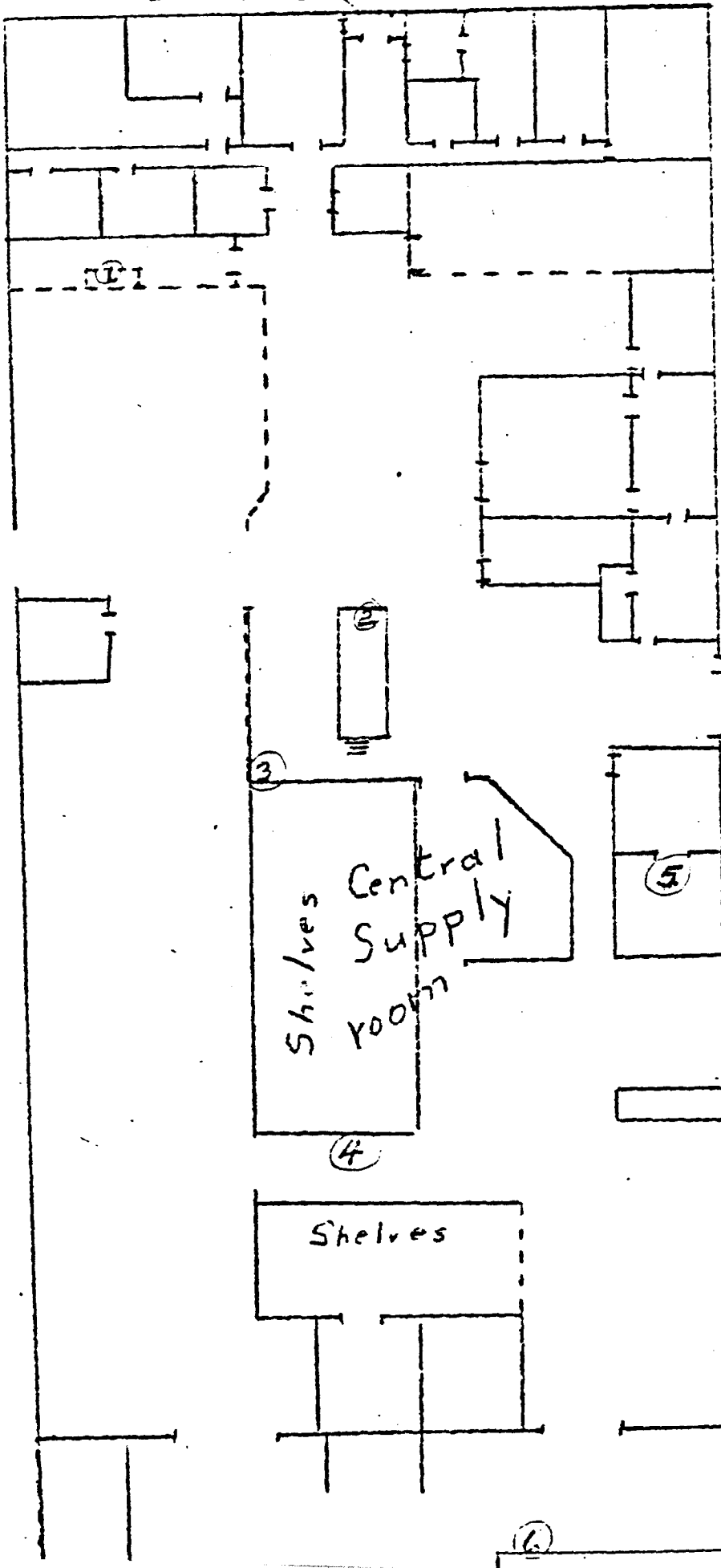
GCP:emr

Enc.

cc: Reading File

← 39th St. St. →

(39th St. Warehouse
July 14, 1949



Contaminated areas.

1. Bench Shelf - 3M; 2/1"S
2. Loading Platform -- 1/1"S
3. Floor -- 4/1"S
4. Curt -- 1/1"S
5. Door --- 3M
6. 20/1"S; 3M on ground

After Decontamination

1. Background (0.2)
2. " (0.1/1"S)
3. < 0.5/1"S
4. < 0.5/1"S
5. Bkgrnd
6. < 1/1"S

July 19, 1949

J. H. McKinley

Business Manager

L. D. Marinelli

Health Physics

Completed survey for contamination of the East Pavilion of the Museum
of Science and Industry Building

A thorough survey to determine the extent of contamination, if any, of all areas (excluding hatched areas) shown on the accompanying building plans was completed July 12, 1949. No contamination above the background levels of the instruments could be detected on any parts of the building or on equipment remaining in the building. Background levels of the instruments were less than 200 dis/min for portable alpha counters and less than 0.5 mr/hr for portable beta-gamma counters.

Instruments used were portable alpha counters, portable alpha floor counter, and Precision portable GM counters. Surveying was done by G. C. Payne, E. Schlant, W. J. Friedman, and J. H. Pingel.

Enc.

L. D. Marinelli
Associate Director
Health Physics Division

LDH:cmr

cc: J. H. Rose
E. D. Payne
Reading File

ARGONNE NATIONAL LABORATORY

DATE July 19, 1949

TO J. E. Rose and L. D. Marinelli

DEPARTMENT Health Physics

FROM G. O. Payne and J. H. Pingel

DEPARTMENT " "

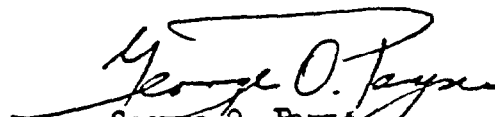
SUBJECT Final Survey of the East Pavilion of the Museum of Science & Industry

A final survey of the East Pavilion of the Museum of Science and Industry for radioactive contamination was completed July 12, 1949. No contamination above background levels of the instruments could be detected on any parts of the building or equipment remaining in the building. Background levels of the instruments were less than 200 dis/min for portable alpha counters and less than 0.5mr/hr for portable beta-gamma counters.

Two contaminated articles found and removed from the building were:

1. The masonite bottom of a box which had alpha and beta contamination to the extent of 2-12M dis/min and 1/1" S;
2. A large burlap bag with beta or gamma contaminant giving readings as high as 2/1" S.

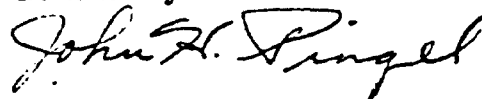
Instruments used were portable alpha counters, portable alpha floor counter and Precision portable GM counters. Surveying was done by G. O. Payne, E. B. Schlant, Wm. J. Friedman, and J. H. Pingel.


George O. Payne
Health Physics

GOP:emr

cc: Reading File

John H. Pingel
Health Physics



Argonne National Laboratory

P.O. BOX 5207
CHICAGO 80, ILLINOIS
BUTTERFIELD 6-5200

June 29, 1949

To: J. E. Rose

Director - Health Physics

From: J. H. McKinley

Business Manager

There is enclosed copy of letter, dated June 24, 1949, from J. E. Armstrong, Director, Division of Engineering, OCDO, USAEC, Subject: East Wing of the Museum of Science and Industry.

Would you be good enough to take the necessary action on paragraph numbered (3) of Mr. Armstrong's letter, forwarding the information to this office for transmittal to Mr. Armstrong.



JHM:nc

6/30

*George has already made arrangements
for this work to be done.*

E/P

COPY

UNITED STATES
ATOMIC ENERGY COMMISSION
Office of Chicago Directed Operations
P. O. Box 6149A
Chicago 80, Illinois

EC:FCM

June 24, 1949

Argonne National Laboratory
P. O. Box 5207
Chicago, Illinois

Attention: J. H. McKinley, Business Manager

SUBJECT: EAST WING OF THE MUSEUM OF SCIENCE AND INDUSTRY

Gentlemen:

Arrangements have been made with representatives of the Museum of Science and Industry to formally turn over to them on June 30, 1949 the east wing of this building, which has been occupied by the Argonne National Laboratory.

Therefore, it is requested that the following items be complied with as expeditiously as possible:

- (1) All keys are to be turned over to P. C. Loen, Chief, Construction and Maintenance Branch, AEC, by June 30, 1949.
- (2) The ANL shall continue to maintain a guard force until the building has been accepted by the Museum.
- (3) A complete survey shall be made to determine the extent of contamination, if any, and a complete report of this survey shall be furnished this office.

Yours very truly,

s/J. E. Armstrong, Director
Division of Engineering

cc: C.A. Tregillus
R.A. Hessler
E. Payne
J.T. Yore

ARGONNE NATIONAL LABORATORY

DATE July 19, 1949

TO J. E. Rose & L. D. Marinelli

DEPARTMENT

FROM G. O. Payne and J. H. Pingel

DEPARTMENT

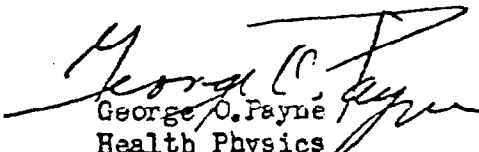
SUBJECT Further information on contamination of Ryerson

It is understood that Rooms 57, 58, and 63 in the basement and Rooms 152, 153, and 156 on the first floor of Ryerson are not to be returned to the University of Chicago. All other rooms, halls, etc. in the parts of Ryerson being returned to the University of Chicago have been surveyed and contamination found has been reduced to acceptable levels. Locations of contaminated areas found in rooms not previously surveyed, the degree of contamination, and levels to which contamination has been reduced are indicated on the accompanying maps.

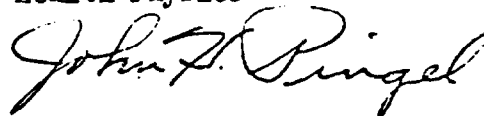
Not indicated on the maps are the following four contaminated articles which Reclamation Service removed from the building:

1. One 10-qt galvanized pail 30M; 1/1" S
2. Board and associated steel pipe 2/1" S
3. Small stone slab 30M
4. Small stone slab 1100M; 3/1" S

Instruments used were portable alpha counters, portable floor counter, and portable beta-gamma counters. Surveying was done by Herbert G. Bodie, Evelyn L. Hall, G. O. Payne, and J. H. Pingel.


George O. Payne
Health Physics

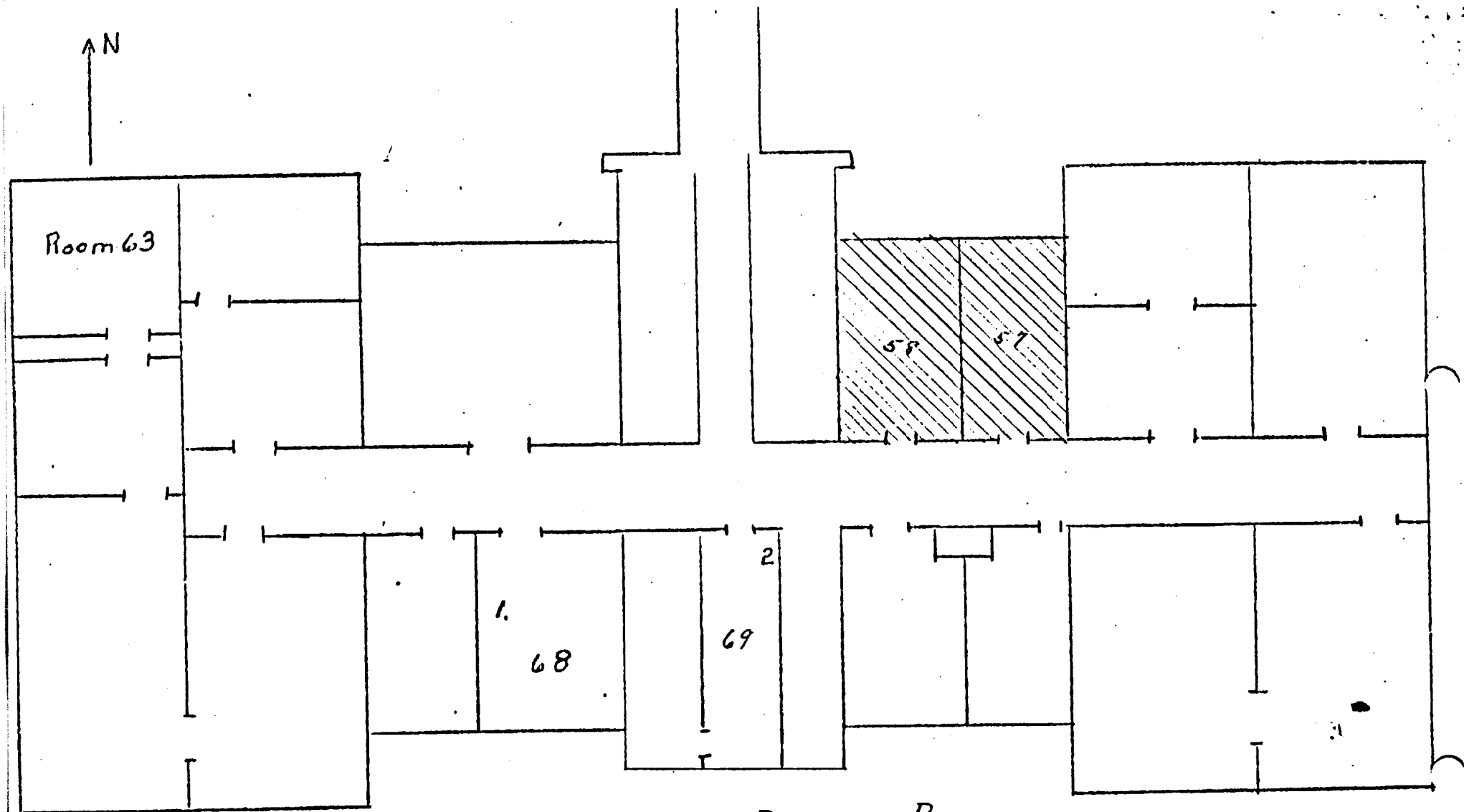
John H. Pingel
Health Physics



GCP:emr

Enc.

cc: Reading File



Basement of Ryerson Proper
Hatched areas remain Argonne Nat'l. Lab.

Contamination found:

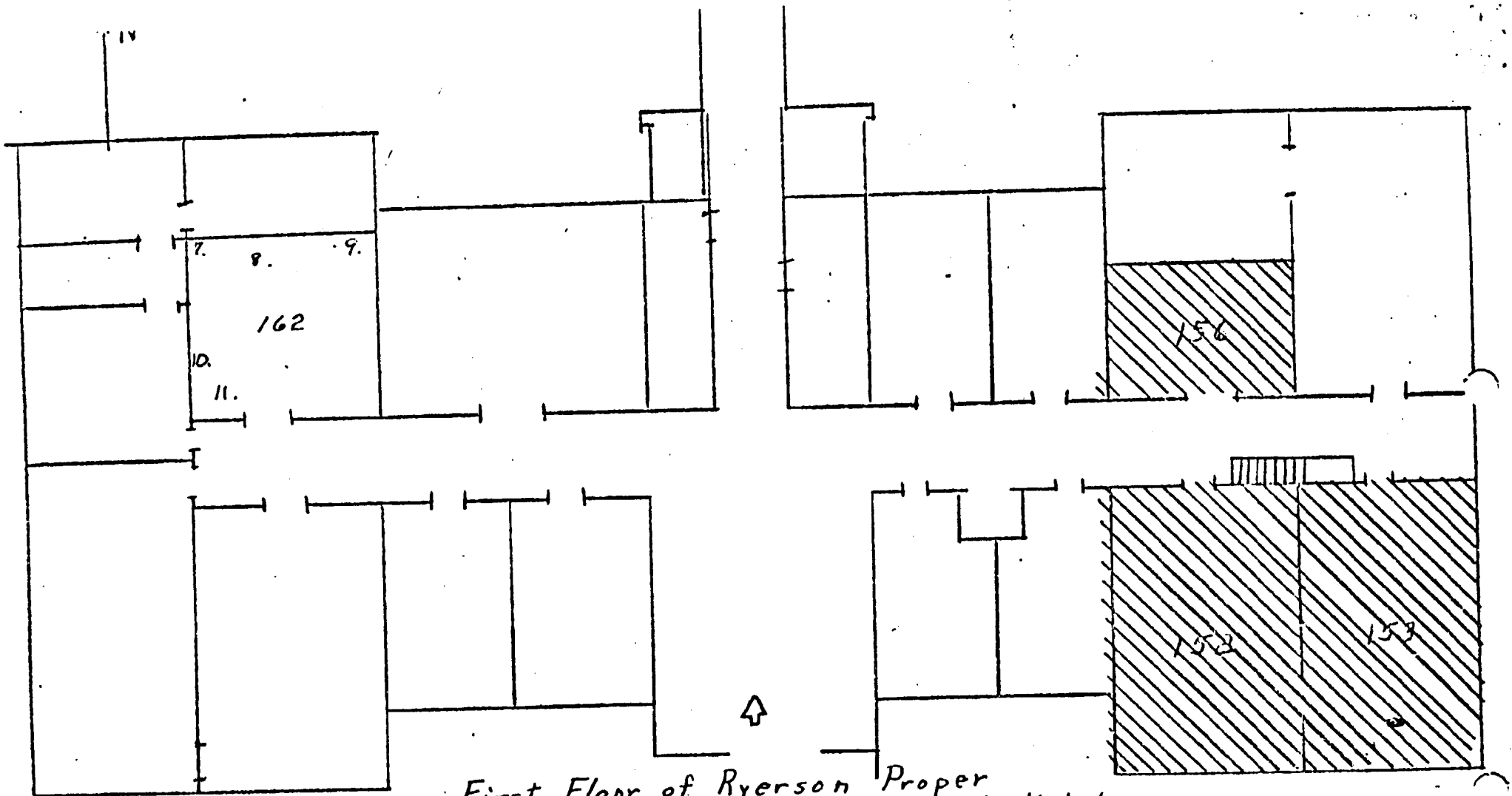
1. 2 areas on stone slab --- 2-6 M
2. Area on floor and wall -- 2-10 M

(Note) Room N-81 Annex (not shown) is not contaminated.

After decontamination:

1. < 1 M (bkgnd)

2. < 1 M



First Floor of Ryerson Proper
Hatched areas remain Argonne Nat'l. Lab.

Contamination found:

- 7. Area on stone lab. bench -- 2-40M
- 8. " " floor --- 2-6M
- 9. " " stone lab. bench -- 2M
- 10. " " wall switchbox --- 2/1"S
- 11. " " floor ---- 2-17M

After decontamination:

- 7. < 2 M
- 8. Bkgnd. (< 0.5M)
- 9. " "
- 10. " " (< 0.5/1"S)

ARGONNE NATIONAL LABORATORY

DATE April 15, 1952

TO J. E. Rose

DEPARTMENT Radiological Physics - D-203

FROM M. F. Huntsinger - J. F. King -
K. L. Nishio

DEPARTMENT Radiological Physics - City

SUBJECT Summary of Activities at New Chemistry and West Stands for the Week of
March 17, through March 23, 1952.

SURVEYS:

All surveys made during this period were in connection with the Restoration Program.

A survey completed on March 21, 1952, shows all rooms occupied by the Argonne National Laboratory in Ryerson on the University of Chicago Campus to be free of any detectable (less than 0.2 μ S and less than 0.5M) radioactive contamination.

The final survey of the New Chemistry Annex has been completed with the exception of an alpha survey of the Annex roof which has been postponed due to weather conditions. The portions of the Annex floor which were painted red due to residual contamination have been removed. All laboratory drains have been plugged with cement and will be removed by Reclamation Service when the cement foundation slab is taken up by the sub-contractor. These drains will be indicated on a floor plan which will be included in the final report on the restoration of the New Chemistry Annex.

AIR SAMPLES:

No air samples were recorded during this period which showed long-lived activity above 10% of the maximum permissible level after 72 hours decay.

SPECIAL SURVEY REPORT

-17-52 West
ISHIO Stands

RP - Req. by W. J. Tyrrell (RS)
Request: Signed ANL-6 for 60 lead bricks (2"x4"x6") which were checked for any activity before they were sent to D-205.

-17-52
ISHIO

Room 5 - Req. by A. L. Singleton (RS)
Request: Check 3 disassembled blowers for any activity before decontamination.
Results: No activity was detected on 3 disassembled blowers.

-18-52
ISHIO
MacDONALD, R. D.

New Chemistry, Room 2 - Req. by J. F. Wing (RP)
Request: Check several highly contaminated items which were kept in a hood in Room 2 before they were taken to Room 6 for decontamination. R. D. MacDonald (RS) and L. J. Hinkins (RS) took part in transferring several highly contaminated items. They wore assault masks, shoe covers and gloves. An air sample was taken which showed 6% of M after 18 hours decay.
Results: The items and activity were as follows:
2 trays containing several small metal plates, 360 to 4500M
Several stainless steel containers, 240 to 1200M
Several beakers, 3 to 25M
Several chemical bottles, 1 to 25M

18-52 West
ISHIO Stands

Room 5 - Req. by A. L. Singleton (RS)
Request: Check 2 disassembled blowers for any activity before decontamination.
Results: No activity was detected on 2 disassembled blowers.

19-52
ISHIO

Room 5 - Req. by A. L. Singleton (RS)
Request: Check 4 disassembled blowers for any activity before decontamination.
Results: No activity detected on the 4 blowers.

19-52
ISHIO

RP - Req. by W. J. Tyrrell (RS)
Request: Signed ANL-6 for 200 lead bricks (2"x4"x8") which were checked for any activity before they were sent to D205.

SPECIAL SURVEY REPORT

-18-52 New Chem
NG

Room 6 - Req. by W. J. Tyrrell (RS)

Request: Check 3 sheets of platinum approximately 3"x2" for any activity after decontamination.

Results: 2 sheets - no contamination detected. 1 sheet - 0.25 to 1.5/1"S. These were wrapped and given to G. F. Steel (CH). Miss Steel was notified as to contamination present.

-20-52
NG

Room 14 - Req. by P. L. Borick (BS)

Request: Check one platform ladder for any activity prior to shipment to S. B.

Results: No contamination detected.

Room 14 - Req. by P. L. Borick (BS)

Request: Check one large exhaust fan from D-Attic for any activity.

Results: No contamination detected.

Room 41 - Req. by J. F. King (RP)

Request: Check miscellaneous items in Room 41 prior to disposal.

Results: Miscellaneous glassware and trays, 2 to 30M; platinum crucible in hood, 10/3"H, 400/3"S, much, much greater than 24,000%. The above items are to be disposed of as DAW. The crucible will be covered with paraffin wax and placed in a screw cap bottle for disposal.

Annex - Req. by W. J. Tyrrell (RS)

Request: Check saw used to cut away painted portions of cement floor in New Chemistry Annex.

Results: No contamination detected.

Ryerson, Rooms 153-156 - Req. by W. J. Tyrrell (RS)

Request: Check floor of Room 155 and the sink in the NW corner of Room 153 any activity after decontamination.

Results: No contamination detected on the floor or the sink.

21-52
NG

AIR COUNTS

<u>Date</u>	<u>Bldg.</u>	<u>Room</u>	<u>Reason</u>	<u>S MPL</u>	<u>Decay Time</u>
3-18-52	N.C.	2	Removing hood contents.	6	18 hours
3-18-52	N.C.	6	Decontaminating items from Room 2 in hood in Room 6.	6	17 hours
3-18-52	N.S.	5	Background.	* 4.7 MPL	10 minutes
				4L	4 hours
				14	25 hours
				6	72 hours
3-18-52	N.S.	9	Background.	3.7 MPL	11 minutes
				28	6 hours
				9	21 hours
3-18-52	N.S.	East Corridor	Background.	3 MPL	12 minutes
				20	4 hours
				6	25 hours

* S of MPL based on MPL for Pu (70 d/m^3).

SPECIAL SURVEY REPORT

*Rad Chemistry*14-52
NGRooms C-1, 2, 3, 9, 10 - Req. by W. J. Tyrrell (RS)Request: Check scraped areas in Rooms C-1, 2, 3, 9, and 10 prior to disposal of the benches and shelving.Results: No contamination detected.16-52
NGRooms C-4, 7, 8 - Req. by W. J. Tyrrell (RS)Request: Check scraped surfaces in Rooms C-4, 7, and 8 prior to disposal of benches and shelving.Results: No contamination detected.16-52
NGRoom B-2 - Req. by W. J. Tyrrell (RS)Request: Check cave in Room B-2 after all lead brick has been removed.Results: No contamination detected.17-52
NGEckhart, Room 118 - Req. by W. J. Tyrrell (RS)Request: Check rug on floor of room 118 following attempts to decontaminate same.Results: Of the original six spots only three were still active, 0.3/1" S. Rug was taken to West Stands for further decontamination.17-52
NGEckhart, Room 117 - Req. by W. J. Tyrrell (RS)Request: Check bench in Room 117 following decontamination.Results: No contamination detected.18-52
NGC Corridor - Req. by W. J. Tyrrell (RS)Request: Check all hoods in C Corridor (18) prior to dismantling same.Results: No contamination detected.8-52
GRooms C5A, C5, C6 - Req. by W. J. Tyrrell (RS)Request: Check scraped areas in Rooms C-5, C-5A, C-6 prior to disposal of benches and shelving.Results: No contamination detected.8-52
GRooms C-1, 2, 3, 10 - Req. by W. J. Tyrrell (RS)Request: Check broken parts from hoods in Rooms C-1, 2, 3, and 10 after removal.Results: No contamination detected.8-52
GRoom B-2 - Req. by W. J. Tyrrell (RS)Request: The following lead brick which was removed from B2 was checked.Results: No contamination detected. 286 lead brick, 9-2' slabs, 1 corner section, 1-2"x4"x16' lead sill.9-52
HORyerson - Req. by J. R. Novak (RP)Request: Check the following rooms at Ryerson prior to return to the University of Chicago. Rooms 57, 58, 61, 62, 63, 151, 152, 153, 156.Results: Room 57 - No contamination detected on equipment or room (except floor--too much equipment in the way to check it).

Room 58 - No contamination detected on equipment or room (except floor--too much equipment in the way to check it).

Room 61 - No contamination detected.

Room 62 - No contamination detected.

Ryerson

Room 63 - No contamination detected.

Room 151 - No contamination detected.

Room 152 - No contamination detected.

Room 153 - Two spots on floor in NW corner, 0.5 to 1M
Sink and drainboard in NW corner, 0.5 to 2M

Spot on table in NW corner, 1M

Spot on lighting apparatus on bench on S side of room,

1M

Room 156 - Spot on floor of dark room, 10M

August 24, 1949

J. H. McKinley

Business Manager

J. E. Rose

Health Physics

Memo from H. B. Matthews concerning contamination of Drexel House

Mr. Matthews misinterprets the content of my report on existing contamination in Drexel House.

The report effectively says that contamination is nil; that it is below our instrumental background sensitivities, which in turn are far more sensitive than are required for the protection of personnel.

The history of the project's use of Drexel House shows that the only contamination was a small amount of natural uranium. This was thoroughly cleaned up prior to the installation of some very low background counting equipment which performed very satisfactorily for a long period.

I have no hesitation in stating that the building is quite fit, as to contamination, for the most sensitive instrumentation.

I am at a loss to find words or means for a more forceful statement.

J. E. Rose
Director, Health Physics Division

JER:emr

cc: J. H. McKinley
Reading File

(Argonne National Laboratory (

P.O. BOX 5207
CHICAGO 80, ILLINOIS
BUTTERFIELD 1400

August 23, 1949

To: J. E. Rose

Director, Health Physics

From: J. H. McKinley

Business Manager

There is enclosed copy of memorandum, dated August 18, 1949,
from H. B. Matthews concerning contamination of Drexel House.

Would you be good enough to furnish the report requested by
Mr. Matthews for transmittal to him.



JHM mc
enc

THE UNIVERSITY OF CHICAGO

August 18, 1949

To: Mr. J. H. McKinley

Business Manager, Argonne
National Laboratory

From: H. B. Matthews

Associate Business Manager

Thank you for your memorandum of August 9 concerning
contamination of Draxel House.

I believe we should have a more detailed report of
the existing levels and locations of contamination in order
that, if necessary, precautions may be taken to safeguard
University and other personnel. Will you please supply this?

s/ H. B. Matthews

August 3, 1949

J. H. McKinley

Business Manager

J. E. Rose

Health Physics

Completed survey of Draxel House for contamination

A survey of Draxel House for contamination was completed on August 3, 1949.
No contamination above the normal background was detectable.

J. E. Rose

Director, Health Physics Division

emr

cc: Reading File

ARGONNE NATIONAL LABORATORY

DATE August 4, 1949

TO J. E. Rose

DEPARTMENT

FROM J. H. Pingel

DEPARTMENT

SUBJECT Survey of Drexel House for Contamination

A survey for contamination in Drexel House was completed August 3, 1949.
No contamination above the background of the instrument could be detected.

Instruments used were a Precision portable beta-gamma survey meter and a portable alpha survey meter. Surveying was done by B. Suleski and J. Pingel.



John H. Pingel
Health Physics Division

JHP:emr

cc: Reading File

Argonne National Laboratory

P.O. BOX 5207
CHICAGO 80, ILLINOIS
BUTTERFIELD 8-5200

July 27, 1949

To: J. E. Rose

Director, Health Physics

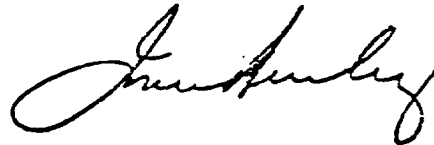
From: J. H. McKinley

Business Manager

Subject: Evacuation of Drexel House

There is enclosed for your information copy of memorandum, dated July 25, 1949, from W. H. Zinn to H. B. Matthews, subject as above.

Would you be good enough to make the necessary survey and furnish a report to this office.



JHM mc

enc

cc C.A. Tregillus w/enc

ARGONNE NATIONAL LABORATORY

July 25, 1949

To: H. B. Matthews

Associate Business Manager
The University of Chicago

From: W. H. Zinn

Laboratory Director

Subject: Evacuation of Drexel House

Please accept this memorandum as formal release of Drexel House,
effective as of July 1, 1949.

We wish to express to The University of Chicago the appreciation
of Argonne National Laboratory for the use of this facility.

W. H. Zinn

WHZ mc
cc J.H. McKinley
J.E. Rose
C.A. Tregillus

ARGONNE NATIONAL LABORATORY

DATE April 15, 1952

To J. E. Rose DEPARTMENT Radiological Physics - D-203
FROM M. F. Huntsinger - J. F. Wing - DEPARTMENT Radiological Physics - City
K. L. Nishio
SUBJECT Summary of Activities at New Chemistry and West Stands for the Week of
March 17, through March 23, 1952.

SURVEYS:

All surveys made during this period were in connection with the Restoration Program.

A survey completed on March 21, 1952, shows all rooms occupied by the Argonne National Laboratory in Ryerson on the University of Chicago Campus to be free of any detectable (less than 0.2/1" S and less than 0.5M) radioactive contamination.

The final survey of the New Chemistry Annex has been completed with the exception of an alpha survey of the Annex roof which has been postponed due to weather conditions. The portions of the Annex floor which were painted red due to residual contamination have been removed. All laboratory drains have been plugged with cement and will be removed by Reclamation Service when the cement foundation slab is taken up by the sub-contractor. These drains will be indicated on a floor plan which will be included in the final report on the restoration of the New Chemistry Annex.

AIR SAMPLES:

No air samples were recorded during this period which showed long-lived activity above 10% of the maximum permissible level after 72 hours decay.

SPECIAL SURVEY REPORT

-17-52 West
ISHIO Stands

RP - Req. by W. J. Tyrrell (RS)

Request: Signed ANL-6 for 60 lead bricks (2"x4"x6") which were checked for any activity before they were sent to D-205.

-17-52
ISHIO

Room 5 - Req. by A. L. Singleton (RS)

Request: Check 3 disassembled blowers for any activity before decontamination.
Results: No activity was detected on 3 disassembled blowers.

-18-52

ISHIO
MacDONALD, R. D.

New Chemistry, Room 2 - Req. by J. F. Wing (RP)

Request: Check several highly contaminated items which were kept in a hood in Room 2 before they were taken to Room 6 for decontamination. R. D. MacDonald (RS) and L. W. Rinkus (RS) took part in transferring several highly contaminated items. They wore assault masks, shoe covers and gloves. An air sample was taken which showed 6% of MFL after 18 hours decay.

Results: The items and activity were as follows:
2 trays containing several small metal plates, 360 to 4500M
Several stainless steel containers, 240 to 1200M
Several beakers, 3 to 25M
Several chemical bottles, 1 to 25M.

-18-52 West
ISHIO Stands

Room 5 - Req. by A. L. Singleton (RS)

Request: Check 2 disassembled blowers for any activity before decontamination.
Results: No activity was detected on 2 disassembled blowers.

-19-52
ISHIO

Room 5 - Req. by A. L. Singleton (RS)

Request: Check 4 disassembled blowers for any activity before decontamination.
Results: No activity detected on the 4 blowers.

-19-52
ISHIO

RP - Req. by W. J. Tyrrell (RS)

Request: Signed ANL-6 for 200 lead bricks (2"x4"x8") which were checked for any activity before they were sent to D205.

SPECIAL SURVEY REPORT

3-18-52 New Chem
WING

Room 6 - Req. by W. J. Tyrrell (RS)

Request: Check 3 sheets of platinum approximately 3"x2" for any activity after decontamination.

Results: 2 sheets - no contamination detected. 1 sheet - 0.25 to 1.5/ These were wrapped and given to G. F. Steel (CH). Miss Steel notified as to contamination present.

3-20-52
WING

Room 14 - Req. by P. L. Borick (RS)

Request: Check one platform ladder for any activity prior to shipment B.

Results: No contamination detected.

3-20-52
WING

Room 14 - Req. by P. L. Borick (BS)

Request: Check one large exhaust fan from D-Attic for any activity.

Results: No contamination detected.

3-21-52
WING

Room 41 - Req. by J. F. Wing (RP)

Request: Check miscellaneous items in Room 41 prior to disposal.

Results: Miscellaneous glassware and trays, 2 to 30M; platinum crucible hood, 10/3"H, 400/3"S, much, much greater than 24,000M. The items are to be disposed of as DAW. The crucible will be covered with paraffin wax and placed in a screw cap bottle for disposal.

3-21-52
WING

Annex - Req. by W. J. Tyrrell (RS)

Request: Check saw used to cut away painted portions of cement floor in Chemistry Annex.

Results: No contamination detected.

3-21-52
WING

Pyerson, Rooms 153-156 - Req. by W. J. Tyrrell (RS)

Request: Check floor of Room 156 and the sink in the NW corner of Room for any activity after decontamination.

Results: No contamination detected on the floor or the sink.

AIR COUNTS

<u>Date</u>	<u>Bldg.</u>	<u>Room</u>	<u>Reason</u>	<u>% MPL</u>	<u>Decay Time</u>
3-18-52	N.C.	2	Removing hood contents.	6	18 hours
3-18-52	N.C.	6	Decontaminating items from Room 2 in hood in Room 6.	6	17 hours
3-18-52	N.S.	5	Background.	* 4.7xMPL 41 14 6	10 minutes 4 hours 25 hours 72 hours
3-18-52	N.S.	9	Background.	3.7xMPL 28 9	11 minutes 4 hours 24 hours
3-18-52	N.S.	East Corridor	Background.	3xMPL 20 6	12 minutes 4 hours 25 hours

* % of MPL based on MPL for Pu (70 d/m/113).

ARGONNE NATIONAL LABORATORY

DATE April 10, 1952

TO J. E. Rose

DEPARTMENT Radiological Physics - D-203

FROM M. F. Huntsinger - J. F. Wing

DEPARTMENT Radiological Physics - City

SUBJECT Summary of Activities at New Chemistry and West Stands for the Week of March 24, through March 30, 1952.

The final Radiological Survey of the New Chemistry Annex has been completed and the final report submitted. An alpha survey of the roof which was postponed due to weather conditions, has been completed and shows readings of less than 1 M detectable.

AIR SAMPLES:

No air samples were taken during the week at New Chemistry as none were required by the work being done,

No air samples were taken at West Stands during this week which showed long lived activity above 10% of the maximum permissible level after 25 hours decay.

SPECIAL SURVEY REPORT - NEW CHEMISTRY

3-25-52
HUNTSINGER
WING

Annex Roof - Req. by W. J. Tyrrell (RS)
Request: Check roof of annex for any alpha activity.
Results: Less than 1 M detected on roof of annex.

3-26-52
WING

Room 18 - Req. by E. E. Grage (BSV)
Request: Check mirror from Room 18 for any activity prior to shipment to Site B.
Results: No contamination detected.

3-26-52
WING

Room 14 - Req. by R. M. Jezik (RS)
Request: Check small scratch on left, middle finger of R. M. Jezik (RS) which occurred when Mr. Jezik, wearing gloves, struck his hand against a board in Room 2.
Results: No contamination detected on scratch, glove, or board. Mr. Jezik covered the scratch with merthiolate and a band-aid from the first aid cabinet at the New Chem Guard Desk.

3-28-52
WING

Room 2 - Req. by W. J. Tyrrell (RS)
Request: Check 10 Stainless steel trays in Room 2 for any activity.
Results: All trays were contaminated.
Average: 1-35 M
Highest: 1-1200 M
The trays were wrapped and taken to West Stands for cleaning.

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SPECIAL SURVEY REPORT - WEST STANDS

3-24-52
NISHIO

Room 5 - Req. by A. L. Singleton (RS)

Request: Check two blowers for any activity before decontamination.
Results: No activity detected.

3-24-52
NISHIO

Room 5 - Req. by A. L. Singleton (RS)

Request: Check two blowers for any activity before decontamination
Results: 0.5/1" S was detected on one blower, and 5/1" S and 8 M were detected on the other blower.

3-25-52
NISHIO

Room 5 - Req. by A. L. Singleton (RS)

Request: Check three blowers for any activity before decontamination
Results: No activity detected.

3-25-52
NISHIO

Room 5 - Req. by W. R. Turner (RS)

Request: Check one blower for beta and gamma activity only after decontamination.
Results: 0.1-0.3/1" S was detected on blower.

3-26-52
NISHIO

Room 5 - Req. by E. H. Dansby (RS)

Request: Check a vacuum cleaner for any activity before decontamination.
Results: 0.4/1" S was detected on top
100/3" S " " on inside
40/3" S " " on filter
The vacuum cleaner was decontaminated with soap and versene and it was painted after the activity was brought down to 4/1" S. It was placed to be used in New Chem.

3-27-52
NISHIO

New Chem - Rooms 1, 2, & 11 - Req. by J. F. Wing (RP)

Request: Spot check the floors and hoods in Rooms 1, 2, & 11 for any activity.

Results: Floor:
Room 1 - 4 M spot
Room 2 - 4-90 M all over
Room 11 - 0.5-10/1" S and 1-30 M all over.

Hood:

Most of hoods were contaminated with 1-5 M and one hood was contaminated with 25 M.

3-28-52
NISHIO

Room 5 - Req. by W. R. Turner (RS)

Request: Check 11 DAW cans (11 inner and 11 outer) for any activity after decontamination with HNO_3 and water.

Results: 12 M was detected on one DAW can. It was put aside for further decontamination.
No activity was detected on the other DAW cans.

AIR COUNTS

<u>Date</u>	<u>Bldg.</u>	<u>Room</u>	<u>Reason</u>	<u>*% MPL</u>	<u>Decay Time</u>
3-25-52	W.S.	5	Background	2.8 X MPL 18% 5%	2 min. 4 hrs. 23 hrs.
3-25-52	W.S.	9	Background	2.5 X MPL 17% 6%	11 min. 5 hrs. 24 hrs.
3-25-52	W.S.	East Corridor	Background	1.7 X MPL 11% 1%	12 min. 5 hrs. 25 hrs.

*% of MPL based on MPL for Pu (70 d/m/M³)

ARGONNE NATIONAL LABORATORY

DATE August 25, 1952

To J. E. Rose

DEPARTMENT Radiological Physics

FROM J. F. Wing - M. F. Huntsinger

DEPARTMENT Radiological Physics

SUBJECT Summary of Activities at New Chemistry and West Stands During the Week of August 11 through August 17, 1952.

NEW CHEMISTRY ANNEX:

The demolition of the New Chemistry Annex, removal of all laboratory and domestic drain pipe and back-filling of drain pipe trenches and grading the surface was completed on 8-13-52. A survey of this area for beta-gamma activity showed none detectable.

WEST STANDS:

No surveys were made at West Stands during this period, as all Reclamation Personnel assigned to the Restoration Program were engaged in special work at D-203.

AIR SAMPLES:

No air samples were taken at New Chemistry or West Stands during this period as none were required by the work being done.

REMOVAL OF GUARDS:

The routine of a guard being on 24-hour duty at New Chemistry and West Stands was discontinued at 17:00 on 8-15-52. These areas were locked and keys issued to O. P. Petersen (FD), 1 set; Reclamation, 3 sets, J. G. Feldes and W. J. Tyrell (RS); L. Mandelstein (RP) 1 set; J. F. Wing (RP) 1 set.

Tours of the two buildings are made before 08:30 and after 17:00 each day by a guard from Site B twice during each of the two shifts. During normal working hours, 08:30 to 17:00, the sergeant from Site B makes two tours of the two buildings, once in the morning, and again in the afternoon.

mm

ARGONNE NATIONAL LABORATORY

DATE December 22, 1952

To J. E. Rose

DEPARTMENT Radiological Physics

FROM J. F. Wing - M. F. Huntsinger

DEPARTMENT Radiological Physics

SUBJECT: Summary of Activities at New Chemistry and West Stands during
the Week of December 8, through December 14, 1952.

Fire Inspection

Routine fire inspections were made twice each weekday in both New Chemistry and West Stands.

Progress

All of the walls in the rooms at New Chemistry have been decontaminated except rooms 2 and 41. At the present time contaminated transite and asbestos ductwork is being stored in these rooms and as soon as space in D-317 is available for this material it will be disposed of and the walls decontaminated.

Work has begun towards decontaminating the floors in New Chemistry.

Surveys

All surveys made during this period were in connection with the Restoration Program.

Air Samples

No air samples were taken during this period at New Chemistry or West Stands as none were required by the work being done.

SPECIAL SURVEY REPORT

New Chemistry

Location	Requestor	Surveyor	Request	Results
-12-52 Btic - Filtered Air Section	E.E. Brage (BSV)	Wing	Check blower motor above Rm. 11 for any activity prior to repairs.	No contamination detected on exposed working surface.
-12-52 Rm. 49	B.A. Anderson (BSV)	Wing	Check cut on palm of right hand of B. A. Anderson (BSV) and check flat head machine screw on which he cut it.	No contamination detected on cut or on screw. Mr. Anderson was given first aid at New Chemistry and then taken to Billings Hospital for further treatment.
-13-52 Rm. 20-A	J.J. Clark (BSV)	Wing	Check hands of J. J. Clark (BSV) and belts he replaced on a new motor serving blower unit above Rm. 11.	No contamination detected on hands or on belts.
-15-52 Annex	J.F. Wing (RP)	Wing	Check earth where New Chemistry Annex stood for any beta-gamma activity after pipe trenches were back-filled and graded.	No beta-gamma activity detected above background.

SPECIAL SURVEY REPORT

Location	Requestor	Surveyor	Request	Results
<u>Test Stands</u>				
<u>12-9-52</u>				
Lunch Rm.	J.F. Wing (RP)	J. Wing	Check lunch room at Test Stands for any activity.	No contamination detected.
<u>12-12-52</u>				
Rm. 5	H.R. White (RS)	J. Wing	Check 1 medium size lead pot in room 5 for any activity after decontamination attempt.	1-2M - general areas on the bottom of the pot (outside the pot). 1-4M - inside of the pot. Decontamination will be rechecked on the pot.
<u>New Chemistry</u>				
<u>12-8-52</u>				
Disc. Rms.	H.R. White (RS)	J. Wing	Check spots on walls (approx. 9 sq. ft) in rooms after additional decontamination attempts.	Rm. 13, 2 spots 1-3M. Rm. 27, 2 spots 1-20M. Rm. 30, No contamination detected. Rm. 35, 1 spot 1-10M. Rm. 36, 1 spot 1-2M. Rm. 37, No contamination detected. These walls were surveyed many times during the day as the decontamination progressed. This is the final survey of the rooms on that day.
<u>2-9-52</u>				
Is. Rms.	H.R. White (RS)	J. Wing	Check spots on walls (approx. 9 sq. ft) in rooms after additional decontamination attempts.	Rm. 13, 1 spot 1-2M. Rm. 27, 1 spot 1-3M. Rm. 35, 1 spot 1-5M. Rm. 36, No contamination detected. Note: These walls were surveyed many times during the day as the decontamination progressed. This is the final survey of these rooms on that day.
<u>-10-52</u>				
Sc. Rms.	H.R. White (RS)	J. Wing	Check spots on walls (approx 9 sq. ft) in rooms after additional decontamination attempts. Note: These walls were surveyed many times during the day as the decontamination progressed. This is the final survey of these rooms on that day.	Rm 1, 2 spots 1-8M Rm. 4, 1 spot 1-2M. Rm. 5, 2 spots 1-5M. Rm. 6, 2 spots 1-7M. Rm. 10, 2 spots 1-10M. Rms. 13, 27, 35 - No contamination detected.

SPECIAL SURVEY REPORT

Location	Requestor	Surveyor	Request	Results
<u>12-11-52</u>				
Rm. 11	L.N. Rinkus (RS)	J. Wing	Check floor of Rm. 11 after decontamination attempt.	General readings of 0.5M. A sign was posted on the door indicating that shoe covers should be worn by all personnel entering the room.
Misc. Rms.	W.R. White (RS)	J. Wing	Check spots on walls (approx. 9 sq. ft) in rooms after additional decontamination attempts.	Rm. 1, 1 spot 1-5M. Rms 4 and 5, no contamination. Rm. 6, 2 spots 1-2M. Rm. 10, 2 spots 1-5M. Rm. 11, 2 spots 1-4M. Note: These walls were surveyed many times during the day as the decontamination progressed. This is the final survey of rooms on that day.
<u>12-12-52</u>				
Misc. Rms.	W.R. White (RS)	J. Wing	Check the linoleum floor covering in rooms 34, 35, 36 and 37 for any activity prior to removal.	A general level of 1-10M was found on the linoleum in rooms 34, 35, 36, and 37. An attempt will be made at a later date to decontaminate it.
Misc. Rms.	W.R. White (RS)	J. Wing	Check spots on walls (approx. 9 ft. sq.) in rooms after additional decontamination attempt.	Rm. 1, 6, 10, 11- No contamination detected. Note: These walls were surveyed many times during the day as decontamination was in progress. This is the final survey of these rooms on that day.