

ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

<p>1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)</p> <p>NATIONAL CANADIAN COMPANY EXPERIMENTAL LABORATORY 3625 HIGHLAND AVE. MILWAUKEE WIS. III</p>	<p>(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)</p> <p>SAME.</p>
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<p>2. DEPARTMENT TO USE BYPRODUCT MATERIAL</p> <p>EXPERIMENTAL LABORATORY</p>	<p>3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)</p> <p>31-2050-1 (RENEWAL)</p>
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<p>4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)</p> <p>GEORGE H. KINOIG - HEAD OF INSTRUMENT ENGINEERING DEPT.</p>	<p>5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)</p> <p>HARRY L. MANN - WORKS DIVISION</p>
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<p>6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)</p> <p>A. Cesium 137 B. Cobalt 60</p>	<p>(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)</p> <p>RADIO CHEMICAL CENTRAL SEALED SOURCE - MODEL CDC-300 - 1 SOURCE OF 500 MILLICURIES</p> <p>ISOTOPE PRODUCTS INC. SEALED SOURCE ACCORDING TO PART NO. 3 OF DWG NO. 3603 1 - SOURCE - 300 MILLICURIES.</p>
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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

A. TO BE USED IN ISOTOPE PRODUCTS, INC. GAMMAGRADE SOURCE
CASTLE MODEL NO. 3405 TO MEASURE DENSITY OF CARBON

B. (COPY FROM A)

8208230219 820806
PDR ADOCK 07000273
C PDR

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)		FORMAL COURSE (Circle answer)	
			Yes	No	Yes	No
a. Principles and practices of radiation protection						
b. Radioactivity measurement standardization and monitoring techniques and instruments						
c. Mathematics and calculations basic to the use and measurement of radioactivity						
d. Biological effects of radiation						

9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE

10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. *No waste from sub 60 source.*

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date 1/5/58

By: NATIONAL CARBONS COMPANY
Applicant named in item 1

By: (W H M)

Plant Manager
Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number ~~31-2050-1~~
(B64)

Amendment No. 1

National Carbon Company
Experimental Laboratory
National Works
Niagara Falls, New York

Attention: Mr. George H. Kindig

In accordance with application dated January 5, 1959, License number 31-2050-1 is amended as follows:

Item 3 is amended to add the symbol (B64) below the License number.

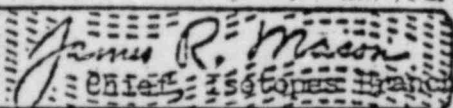
Item 4 is amended to extend the Expiration date from February 28, 1959, to February 29, 1964.

License number 31-2050-1 is further amended as follows:

Condition 13 is amended to read:

- 13. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."

For the U. S. Atomic Energy Commission


 Chief, Isotopes Branch

Division of Licensing and Regulation
Washington 25, D. C.

Date February 5, 1959

C.C. given to Mr. Fletcher - 2/10/59

October 1, 1959

Dr. Morris Nichols, Director
Division of Industrial Hygiene
New York State Dept. of Labor
80 Centre Street
New York, 13, New York

Dear Sir:

Attached will be found two completed copies of Registration form IH-312 (2-59) itemizing sources of radiation and radioactive materials located at the Niagara Falls plant.

The purpose of this submission is to register two new sources of radiation as stated on the registration form, to our existing registration

1 industrial x-ray unit - 300 KVP - 10 MA maximum

1 industrial x-ray unit - 50 KVP - 20 MA maximum

These sources are installed in our special X-ray Room in Bldg. 56, along with the previously registered radiation sources.

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

Attach.

BC: (no attachments)
Dr. T.W. Nale/Mr. P.W. McDaniel
Messrs. W.D. Nichols/E.B. Pilcher/A. Farmer
V.H. Wells
R.H. Beyer
R. Bushong/R.P. Stambaugh
C.R. Cummins

STATE OF NEW YORK, DEPARTMENT OF LABOR

Division of Industrial Hygiene
80 Centre Street, New York 13, N. Y.

Registration No.
Date Registered

REGISTRATION OF SOURCES OF RADIATION

(SEE OVER FOR INSTRUCTIONS)

1. NAME OF OWNER

National Carbon Company, Div. of Union Carbida Corp.

2. ADDRESS IN FULL

National Works, 3625 Highland Avenue, Niagara Falls, New York

COUNTY

Niagara

3. CONFINES OF INSTALLATION

Buildings #56 and #32

4. INDUSTRY

carbon manufacture

5. TOTAL NO. OF WORKERS EXPOSED

TO RADIATION IN THIS INSTALLATION 7

6. ARE THE SOURCES NOW BEING REPORTED ON THIS FORM A PART OF AN INSTALLATION PREVIOUSLY REGISTERED WITH THE DIVISION OF INDUSTRIAL HYGIENE? YES NO

IF YES, WHAT IS OUR REGISTRATION NUMBER FOR THAT INSTALLATION? to cover additions to #0181

7. RADIATION PRODUCING EQUIPMENT (USE ADDITIONAL SHEETS IF NECESSARY)

a. Number	b. Description of Each Radiation Producing Machine or Unit		c. Purpose or Use	d. No. of Workers Exposed
	Fixed	Mobile		
INDUSTRIAL X-RAYS				
Q 1	0	Industrial x-ray unit, 150 KVP - max. tube current 25 MA) Examination	
U 1	0	X-ray Dif. apparatus - 35 KVP - max. tube current 35 MA) of	5
I *1	0	Industrial x-ray unit - 50 KVP - max. tube current 20 MA) Carbon	
P *1	0	Industrial x-ray unit - 30 KVP - max. tube current 10 MA) Structures	
M		* additions		
ETA RAY GAUGE				
A 2	0	One Isotope Products (Instr.Div.) Inc. 3404 - (5005-3) - 6156 Gamma Gauge	Measuring	
T		1 source 500 MC CO 137, 1 source 300 Mc Cobalt 60	Density of Carbon	

8. RADIOACTIVE MATERIALS (USE ADDITIONAL SHEETS IF NECESSARY)

a. Types	b.		c.		d. Source Strength	e. Estimated Quantity Used Annually	f. Maximum Quantity on Hand	g. Purpose or Use	h. No. of Workers Exposed
	Fixed	Mobile	Sealed	Un-Sealed					
M* Cobalt A 60	1	0	1	0	1/3 Curie	Expected life of 5 years.	1/3 Curie	Gamma gauge for thickness determination))) 2
E* Cesium R 137	1	0	1	0	500 M Curies	1/2 life - 33 years	500 M Curies	Same))
* Ret'd to Curtiss Wright 6/9/60 - see letter dated 6/9/60									

9. NAME, TITLE AND BUSINESS ADDRESS OF PERSON IN CHARGE OF RADIATION PROTECTION

H. J. Mann, National Carbon Co, Div. of Union Carbida Corp., 3625 Highland Ave., Niagara Falls, N.Y.

Qualifications 1937 graduate - BCE - Rensselaer Polytechnic Institute,
Works Engineer of National Carbon Co. at above address and
Chairman of Radiation Committee.

Date

Signature of Person in Charge of Radiation Protection

STATE OF NEW YORK
DEPARTMENT OF LABOR


DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK 13, N. Y.

ADDRESS REPLY TO:

October 19, 1959

Mr. H. J. Mann
National Carbon Company
Division of Union Carbide Corp.
3625 Highland Avenue
Niagara Falls, N. Y.


REFER TO: 

RECEIVED
NATIONAL CARBON CO.
A DIV. OF UNION CARBIDE AND CARBON CORP.
NIAGARA FALLS, N. Y.

OCT 23 1959

P.M.
OCT 23 10 11 12 1 2 3 4 5 6

Dear Mr. Mann:

We have examined your supplement to "Registration of Sources of Radiation" (1H-312)  and we found it to be satisfactory.

This acknowledgement is returned to be retained in your files as evidence of compliance with paragraph 38-4 of Industrial Code Rule #38 pertaining to registration.

We appreciate your full and prompt cooperation.

Very truly yours,

Morris Kleinfeld

Morris Kleinfeld, M. D.
Director

MK:jb

-5/1
5/16

March 17, 1960

Curtiss-Wright Corp.
Electronics Division
631 Central Avenue
Carlstadt, New Jersey

See Carl's new address

Attn: Mr. O. B. Eakin

Gentlemen:

A number of years ago, we purchased from Isotope Products several sources of radioactive materials for experimental measurements. I believe your records contain the details of the purchases which are briefly:

- 1. Cesium 137 - 500 milli-curies - model CDC-500
- 2. Cobalt 60 - 1/3 curie - in Isotope Products sealed container part #3 of dwg. 3603.

Balancing source for item 2 - per Isotope Products Corp. dwg. #370 - containing 18 milli-curies of Thallium 204.



Is your organization in a position to accept return of the material? If so, what financial arrangements are suggested? If not, do you have other suggestions for disposal?

We will appreciate your early consideration and advise.

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

BC: Mr. S. Matay

5716

Harry Mann
7
Inventory 57



CURTISS-WRIGHT CORPORATION

PRINCETON DIVISION

PRINCETON, NEW JERSEY

May 12, 1960

National Carbon Co., Experimental Laboratory
National Works
Niagara Falls, New York

Gentlemen

According to our records we do not have a copy of your current AEC Byproduct Material License in our files. This license applies to the radioactive sources used in the radiation gauges which were supplied by Curtiss-Wright Corp., Canadian Curtiss-Wright, or Isotope Products Ltd.

We would appreciate it if you would send us a copy at your earliest convenience.

Very truly yours,

CURTISS-WRIGHT CORPORATION
Princeton Division

L. Robert Smith

L. Robert Smith
Radiation Protection Officer
Engineering Department

LRS:mr

6719

Radiation

May 23, 1960

Mr. L. Robert Smith
Radiation Protection Officer
Engineering Department
Curtiss Wright Corporation
Princeton, New Jersey

Dear Mr. Smith:

We advise that a copy of our [redacted] was given to Mr. Fletcher of Curtiss-Wright during his visit of 5/7/59, at which time he advised that it would be transmitted to your files. The [redacted]

[redacted]
this [redacted] your
Mr. Lakin.

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

Radiation

Following letter also sent to the following:

Dr. Morris Kleinfield, Director, Div. of Industrial Hygiene, N.Y. State Dept. of Labor
80 Centre St., New York 13, New York
Bureau of Fire Dept., City of Niagara Falls, Second St. & Niagara Ave., Niagara Falls
New York, Attn: Mr. Harold E. Palmatier, Chief Engr.

June 11, 1960

United States Atomic Energy Commission
Post Office Box 8
Oak Ridge, Tennessee

Attn: Isotopes Division

Gentlemen:

[REDACTED]

private messenger to the Curtiss Wright Corporation, Princeton Division, Princeton, New Jersey on June 9th, 1960.

The materials involved are covered by AEC By-Product Material License #31-2050-1 (B-64) and are specifically:

- 1. Cesium 137 - 500 milli-curies
- 2. Cobalt 60 - 1/3 curies
- 3. Thallium 204 - 13 milli-curies - used as a balancing source for item #2.

A Curtiss Wright personal messenger picked up these three sources for transportation to Princeton by his private automobile.

[REDACTED]

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

BC: Dr. T.W. Nale/P. McDaniel

Messrs. V.H. Wells

R.G. Sutter

R.H. Beyer

Messrs. J.H. McFerrin

C.R. Cummins

I.M. Maray

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

Radiation

This Copy is For Your Files

Supplementary Sheet

License Number (264)

AMENDMENT NO. 2

National Carbon Company
Experimental Laboratory
National Works
Niagara Falls, New York

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

JUL 8 1960

A.M. P.M.
6,7,8,9,10,11,12,1,2,3,4,5

Attention: Mr. George H. Kindig

In accordance with letter from H. J. Mann dated June 11, 1960, Byproduct

~~_____~~

[Signature]
Date July 5, 1960

For the U. S. Atomic Energy Commission
[Signature]
by Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

Radiation

This Copy is For Your Files

Supplementary Sheet

License Number (034)

AMENDMENT NO. 2

National Carbon Company
Experimental Laboratory
National Works
Niagara Falls, New York

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

JUL 8 1960

A.M. P.M.
6,7,8,9,10,11,12,1,2,3,4,5

Attention: Mr. George H. Kindig

In accordance with letter from H. J. Mann dated June 11, 1960, Byproduct

~~_____~~

Date July 5, 1960

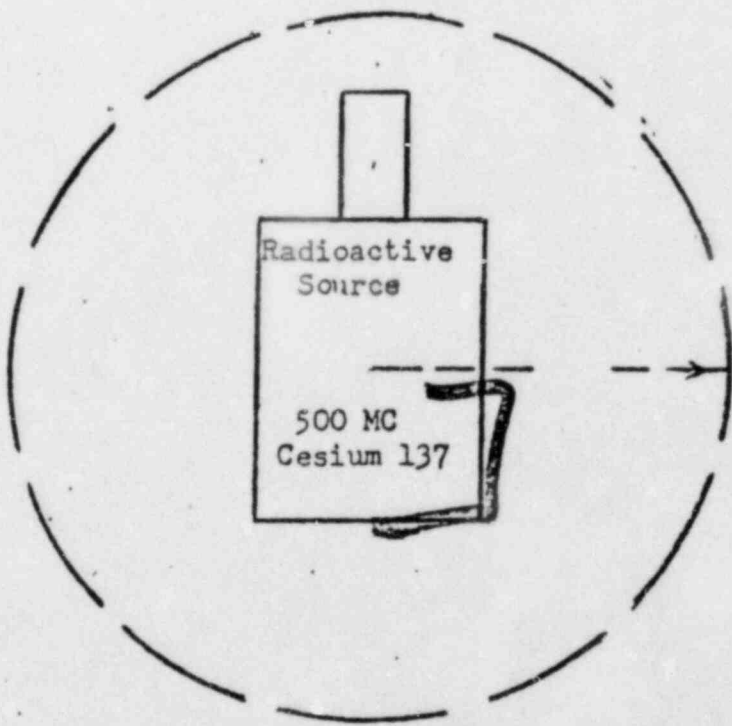
For the U. S. Atomic Energy Commission
by [Signature]
Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

BY.....DATE..... SUBJECT Survey on Radiation Level SHEET NO.....OF.....
CHKD. BY.....DATE..... National Carbon Company JOB NO.....
..... National Plant - Niagara Falls, N.Y.

This is to inform you that after the radiation sources were returned to Curtiss Wright Corp. the radiation level in the area where the sources were stored is 0.01 MR/HR.

As a result of this survey we took the liberty of removing both regulation radiation signs from the previously assigned area and we feel that our radiation surveys are no longer necessary.

7



Radiation Level
_____ m/r (milliroentger)

Handwritten signature

Readings Taken By: *John Kirk*
Date: *7/8/60*

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

April 19, 1965

RECEIVED
NATIONAL CARBON CO.
DIV. OF INDUSTRIAL HYGIENE

APR 27 1965

AM
8171810101112110141618

ADDRESS REPLY TO:
Radiological Health Unit

National Carbon Company
Union Carbide Corporation
3625 Highland Avenue
Niagara Falls, New York

REFER TO:

Att: Mr. H. J. Mann, P.E.

Gentlemen:

700-11-20 - 7/5/60

Please advise regarding status of your AEC licenses SMB-366, SNM-252 and [REDACTED]. Are these licenses still in effect? If so, is any radioactive material covered by them in use in your installation?

My records indicate the licenses were supposed to expire on July 31, 1964, September 30, 1961 and February 29, 1964 respectively.

Very truly yours,

Morris Kleinfeld
Morris Kleinfeld, M.D.
Director

APA/v

cc R. Vessels

Radioactive
mat'l

April 30, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dpt. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

ive

We cannot identify SMB-366 and SNM-252 from our files, having no record of these, and further add that we have had no radioactive materials in our plants since 1960.

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

May 6, 1965

ADDRESS REPLY TO:

Radiological Health Unit

Carbon Products Division
Union Carbide Corporation
Niagara Works
Niagara Falls, New York

REFER TO:

LR0181

Att: H.J. Mann, Works Engineer

Gentlemen:

Pursuant to your letter of April 30, 1965, I enclose herewith copies of your USAEC licenses SMB-366 and SNM-252.

[REDACTED] SMB-366 and [REDACTED]
the [REDACTED] of regulatory [REDACTED] the USAEC
to [REDACTED] [REDACTED] these licenses were [REDACTED]
[REDACTED] have no further use [REDACTED]

Our records indicate that license SNM-252 expired September 30, 1961 unless you obtained an extension. Please advise.

Very truly yours,

Morris Kleinfeld
Morris Kleinfeld, M.D.,
Director

CC: R. Vessels
Encl.

Reply on 4/30 letter

As mentioned in our previous letter, license 31-2050-1 was terminated July 5, 1960. We also have no record for licenses SMB-366 or SNM-252 which covers same term handling of material, as we recall being 3-4 months. We will assume all licenses terminated.

Radio letter

June 3, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dept. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

As mentioned in our previous letter, [REDACTED]
[REDACTED] We also have no need for licenses SMB-366 or SMC
252 which covered short term handling of the material, as we recall
about 3-4 months.

We will assume all licenses terminate.

Very truly yours,

/s/ H. J. Mann

H.J.Mann
baf

Works Engineer

plu
Public Action



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y., 10013

June 16, 1965

ADDRESS REPLY TO:

Radiological Health Unit

National Carbon Company
Division of Union Carbide Corporation
Niagara Falls, New York

REFER TO: L 0181

Att: Mr. H. J. Mann
Works Engineer

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

JUN 28 1965

AM 6 7 8 9 10 11 12 1 2 3 4 5 6 PM

Gentlemen:

Pursuant to your letter dated June 3, 1965, [redacted] and SMB-366, to possess and use [redacted]. Should you desire to continue to possess and use this material, it will be necessary for you to submit a new application for a license on the forms enclosed herewith.

Your attention is called to Industrial Code Rule 38-36.2 regarding maintenance and disposition of records for inactivated installations.

His records for 5 years

Very truly yours,

Morris Kleinfeld M.D.

Morris Kleinfeld, M.D.
Director

RES

vb

Encls. - Inst.
4 Lic. Applics.
CR 38

cc R. Vessels

Rec

July 29, 1965

Dr. Morris Kleinfeld
Radiological Health Unit
N. Y. State Dept. of Labor
Division of Industrial Hygiene
New York, N. Y. 10013

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
MONTICELLO FALLS, N. Y.

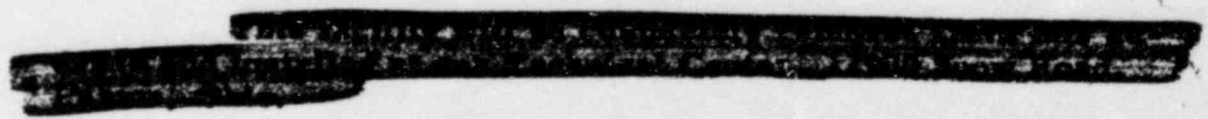
JUL 30 1965

AM 8 17 18 19 10 11 12 1 2 3 4 5 6 PM

Dear Dr. Kleinfeld:

Please be advised that after July 31, 1965 we will not be operating our sources of radiation as listed in our Registration [redacted] accompanying our letter dated October 9, 1959, comprising:

- 150 KVP tube
- 35 KVP tube
- 50 KVP tube
- 300 KVP tube



Very truly yours,

H. V. Johnson

Niagara Development Laboratory

H. V. Johnson
ERB

cc - Mr. H. J. Mann ✓
Mr. H. A. Downey

(see renewal for new
installation at AN)

22

143 main
See your file

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

August 26, 1965

ADDRESS REPLY TO:

Radiological Health Unit

Union Carbide Corporation
Carbon Products Div.
P. O. Box 560
Niagara Falls, N.Y. 14302

REFER TO: #R0181

Att: Mr. H. V. Johnson

Gentlemen:

In accordance with your letter dated July 29, 1965 ,
your registration [redacted]

[redacted] Should you desire to resume use
of radiation sources at some future date, it will be necessary
for you to re-register with or obtain a license from the Labor
Department.

Your attention is called to Code Rule 38-36.2 on
maintenance and disposition of records of inactivated instal-
lations.

Very truly yours,

Morris Kleinfeld, M.D.

Morris Kleinfeld, M.D.
Director

APA:jj

RES

*HV Johnson
8-30-65*

[Handwritten initials]

UNITED STATES
ATOMIC ENERGY COMMISSION

SOURCE MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954, and Title 10, Code of Federal Regulations, Chapter 1, Part 40, "Licensing of Source Material," and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, possess and import the source material designated below; to use such material for the purpose(s) and at the place(s) designated below; and to deliver or transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954 and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission, now or hereafter in effect, including Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation," and to any conditions specified below.

Licensee		3. License No.
1. Name	National Carbon Company	[REDACTED]
2. Address	P.O. Box 6007 Cleveland 1, Ohio	4. Expiration Date
Attention: Mr. S. L. Shover		July 31, 1964
6. Source Material	Uranium & Thorium	5. Docket No.
		40-2692
		7. Maximum quantity of source material which licensee may possess at any one time under this license
		Five thousand (5000) pounds

CONDITIONS

8. Authorized use (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)

For use in accordance with the procedures described in the licensee's applications dated April 29, 1956; June 2 and July 6, 1961.

Authorized place of use: The licensee's facilities located at **[REDACTED] Ohio; [REDACTED] Ohio and [REDACTED], New York.**

For the U. S. ATOMIC ENERGY COMMISSION

Date of issuance _____

Ronald A. [REDACTED]

5/4

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

RECEIVED
NATIONAL CARBON CO.
DIV. OF INDUSTRIAL HYGIENE

APR 27 1965

AM
11/18/10/11/12/13/14/15

80 CENTRE STREET
NEW YORK, N. Y. 10013

April 19, 1965

ADDRESS REPLY TO:

Radiological Health Unit

[National Carbon Company
Union Carbide Corporation
3625 Highland Avenue
Niagara Falls, New York]

REFER TO:

[Att: Mr. H. J. Mann, P.E.]

Gentlemen:

7/5/60
7/5/60
Please advise regarding status of your AEC licenses
[redacted] SNM-252 and 31-2050-1. Are these licenses still in
effect? If so, is any radioactive material covered by them
in use in your installation?

My records indicate the licenses were supposed to
expire on July 31, 1964, September 30, 1961 and February 29,
1964 respectively.

Very truly yours,

Morris Kleinfe
Morris Kleinfe, M.D.
Director

APA/v

cc R. Vessels

Radioactive
Material

April 30, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dpt. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

We advise that A.E.C. license 31-2050-1 covering radioactive cobalt, cesium and thallium was terminated on July 5, 1960 when the material was evacuated from the plant.

[REDACTED] and SNM-252 from our files, having no record of these, and [REDACTED]

Very truly yours,

/s/ H. J. Mann

H.J.Mann
baf

Works Engineer

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

May 6, 1965

ADDRESS REPLY TO:

Radiological Health Unit

Carbon Products Division
Union Carbide Corporation
Niagara Works
Niagara Falls, New York

REFER TO:

LR0181

Att: H.J. Mann, Works Engineer

Gentlemen:

Pursuant to your letter of April 30, 1965, I enclose herewith copies of your USAEC licenses [redacted] and SNM-252. Amendment No. 1 to USAEC license 31-2050-1 extended the expiration date to February, 1964. [redacted] and 31-2050-1 [redacted]

[redacted] Our records indicate that license SNM-252 expired September 30, 1961 unless you obtained an extension. Please advise.

Very truly yours,

Morris Kleinfeld
Morris Kleinfeld, M.D.,
Director

CC: R. Vessels
Encl.

Reply on 4/30 letter

As mentioned in my previous letter, license 31-2050-1 was terminated July 6, 1960. We also have no record for licenses SMC-366 or SNM-252 which covers some term handling of material, as we recall about 3-4 months. You will assume all licenses terminated.

Radiis letter

June 3, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dept. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

As mentioned in our previous letter, license 31-2050-1 was terminated July 5, 1960. [REDACTED] or SIM 252 which covered short [REDACTED] handling [REDACTED] [REDACTED]

We will assume all licenses terminate.

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer



STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y., 10013

June 16, 1965

ADDRESS REPLY TO:

Radiological Health Unit

National Carbon Company
Division of Union Carbide Corporation
Niagara Falls, New York

Att: Mr. H. J. Mann
Works Engineer

REFER TO: L 0181

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

JUN 28 1965

AM 8 17 18 19 10 11 12 1 2 3 4 5 6 PM

Gentlemen:

Pursuant to your letter dated June 3, 1965, this is to notify you that your licenses, #31-2050-1 and ~~_____~~ ~~_____~~ Should you desire to continue to possess and use this material, it will be necessary for you to submit a new application for a license on the forms enclosed herewith.

Your attention is called to Industrial Code Rule 38-36.2 regarding maintenance and disposition of records for inactivated installations.

Handwritten note: Lic. Renewal for 5 years

Very truly yours,

Handwritten signature: Morris Kleinfeld M.D.

Morris Kleinfeld, M.D.
Director

Handwritten initials: RES

vb

Encls. - Inst.
4 Lic. Applics.
CR 38

cc R. Vessels

1 ea
UNITED STATES
ATOMIC ENERGY COMMISSION

SPECIAL NUCLEAR MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 70, "Special Nuclear Material Regulations," a license is hereby issued authorizing the licensee to receive and possess the special nuclear material designated below; to use such special nuclear material for the purpose(s) and at the place(s) designated below; and to transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 70.32(a) of said regulations, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

- | | |
|---|---|
| <p>Licensee</p> <p>1. Name National Carbon Company
A Division of Union Carbide Corporation</p> <p>2. Address 30 East 42nd Street
New York 17, N. Y.</p> <p>6. Special Nuclear Material
Uranium enriched in the U-235 isotope.</p> <p>8. Authorized use
For use in research and development activities in accordance with the procedures described in the licensee's application of July 23, 1953.</p> <p>9. Quantity of special nuclear material allocated to licensee pursuant to Section 70.31(b) of said part
None.</p> | <p>3. License No.
[REDACTED]</p> <p>4. Expiration Date
September 30, 1961</p> <p>5. Docket No.
70-073</p> <p>7. Maximum quantity of special nuclear material which licensee may possess at any one time under this license
350 grams of contained U-235</p> |
|---|---|

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.

**Authorized place of use: The licensee's firm, [REDACTED],
[REDACTED],
[REDACTED].**

For the U. S. ATOMIC ENERGY COMMISSION

Date of issuance

J. C. Eschery
Division of Licenses & Enforcement

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

April 19, 1965

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

APR 27 1965

A M
R171810101121210101010

ADDRESS REPLY TO:
Radiological Health Unit

National Carbon Company
Union Carbide Corporation
3625 Highland Avenue
Niagara Falls, New York

REFER TO:

Att: Mr. H. J. Mann, P.E.

Gentlemen:

7/5/60
700-20
Please advise regarding status of your AEC licenses SMB-366, [REDACTED] and 31-2050-1. Are these licenses still in effect? If so, is any radioactive material covered by them in use in your installation?

My records indicate the licenses were supposed to expire on July 31, 1964, September 30, 1961 and February 29, 1964 respectively.

Very truly yours,

Morris Kleinfeld
Morris Kleinfeld, M.D.
Director

APA/v

cc R. Vessels

Radioactive
Mat'l

April 30, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dpt. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

We advise that A.E.C. license 31-2050-1 covering radioactive cobalt, cesium and thallium was terminated on July 5, 1960 when the material was evacuated from the plant.

[REDACTED] and SRM-252 from our files, having no record of these, and further add [REDACTED]

Very truly yours,

/s/ H. J. Mann

H. J. Mann
baf

Works Engineer

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL HYGIENE

80 CENTRE STREET
NEW YORK, N. Y. 10013

May 6, 1965

ADDRESS REPLY TO:

Radiological Health Unit

Carbon Products Division
Union Carbide Corporation
Niagara Works
Niagara Falls, New York

REFER TO:

LR0181

Att: H.J. Mann, Works Engineer

Gentlemen:

Pursuant to your letter of April 30, 1965, I enclose herewith copies of your USAEC licenses SMB-366 and SNM-252. Amendment No. 1 to USAEC license 31-2050-1 extended the expiration date to February, 1964. Since SMB-366 and 31-2050-1 were in effect at the time of transfer of regulatory responsibility from the USAEC to New York State on October 15, 1962, these licenses were extended indefinitely. If you have no further use for them, we plan to terminate them.

~~_____~~ is.

Very truly yours,

Morris Kleinfeld
Morris Kleinfeld, M.D.,
Director

CC: R. Vessels
Encl.

Reply *see 4/30 letter*

As mentioned in our previous letter, license 31-2050-1 was terminated July 5, 1960. We also have no work for licenses SMB-366 or SNM-252 which covered some term handling of material, as we recall about 3-4 months. We will assume all licenses terminate.

Radio Unit

June 3, 1965

Radiological Health Unit
Morris Kleinfeld, M.D.
New York State Dept. of Labor
80 Centre Street
New York, New York 10013

Dear Sir:

As mentioned in our previous letter, license 31-2050-1 was terminated July 5, 1960. [REDACTED] SMB-366 or [REDACTED]

We will assume all licenses terminate.

Very truly yours,

/s/ H. J. Mann

H.J.Mann
baf

Works Engineer

Rev

July 29, 1965

Dr. Morris Kleinfeld
Radiological Health Unit
N. Y. State Dept. of Labor
Division of Industrial Hygiene
New York, N. Y. 10013

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

JUL 30 1965

AM 5 17 18 19 10 11 12 1 2 3 4 5 PM 6 18

Dear Dr. Kleinfeld:

Please be advised that after July 31, 1965 we will not be operating our sources of radiation as listed in our Registration 0181 accompanying our letter dated October 9, 1959, comprising:

- 150 KVP tube
- 35 KVP tube
- 50 KVP tube
- 300 KVP tube

~~_____~~
~~_____~~

Very truly yours,

H. V. Johnson

Niagara Development Laboratory

H. V. Johnson
ERB

cc - Mr. H. J. Mann ✓
Mr. H. A. Downey

*(see renewal for new
installation at AN)*

[Handwritten initials]



INTERNAL CORRESPONDENCE

ETD
Parma
BAF-file

NATIONAL CARBON COMPANY

P. O. BOX 560, NIAGARA FALLS, NEW YORK

To (Name) Mr. R. J. Belknap
Company Technical Center
Location P. O. Box 6116
Cleveland, Ohio

Date September 27, 1965

Originating Dept.

Answering letter date

Copy to Mr. H. J. Mann
Mr. H. A. Downey
Mr. W. H. Ruoff
Mr. R. L. Reddy
Mr. H. C. Stieber
Dr. L. E. Vaaler
Mr. A. J. Barbanera

Subject Property Records

RECEIVED
NATIONAL CARBON CO.
DIV. OF UNION CARBIDE CORP.
NIAGARA FALLS, N. Y.

SEP 28 1965

A M
8 9 10 11 12 1 2 3 4 5 6 P M

Dear Bob:

I am enclosing "Clearing Notice and Acquisition Reports" for all Niagara Development Properties acquired in the period 1950 to 1964, inclusive, that have now been transferred to Parma. Property purchased in 1965 will be cleared early in 1966 and you should receive clearance forms for the late equipment at that time. The 1965 purchases were made on 930 Order Nos.: 789, Farrel Continuous Mixer; 790, Minor Property; 791, Digital Readout Equipment. I believe these forms will enable you to complete property cards for this equipment, using the transfer reports as a guide.

The Niagara Works Engineer's 930 files have been largely stripped of vendors drawings and these papers have been placed in the Development 930 files. The Development 930 files, in a four drawer cabinet, will be shipped to Parma about October 20. Since the file cabinet contains many other department papers, it will probably be in the hands of H. C. Stieber temporarily. The Niagara Works Engineering 930 files and the Niagara Development 930 files both contain many quotations, requests, commitments, instructions, etc., the former being more complete but are not being changed at this time, except the aforesaid drawings and clearances.

We are enclosing also the Niagara 816 scroll issued in December 1963 which can be used to trace from the property numbers to the correct 930 number. The scroll issued in December 1964 contains both plant and 816 property, hence must be retained at Niagara.

We trust these papers will be useful.

Very truly yours,

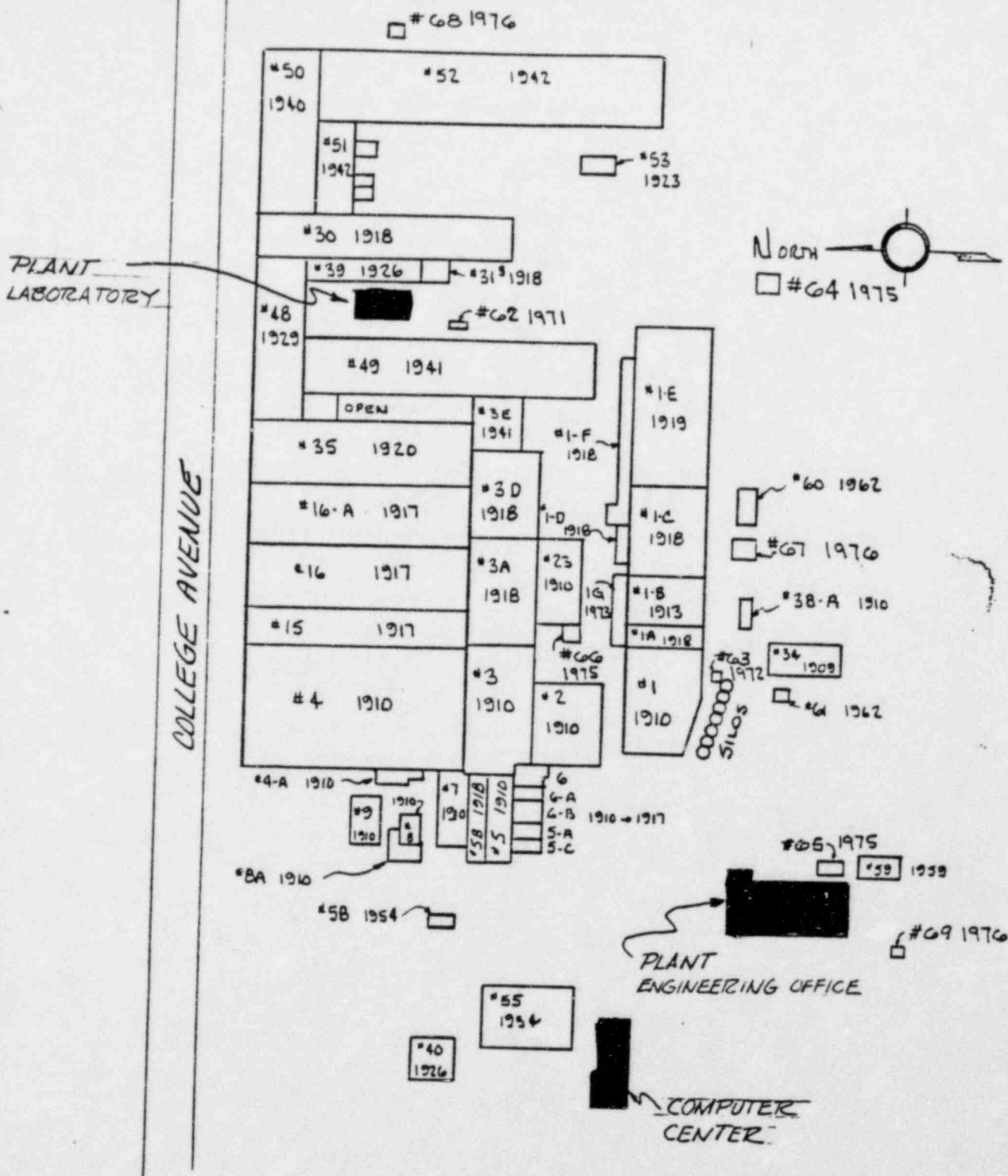
H. V. Johnson

H.V.J.
10/4/65

H. V. Johnson
ERB


CPD
9/29
9/20/65

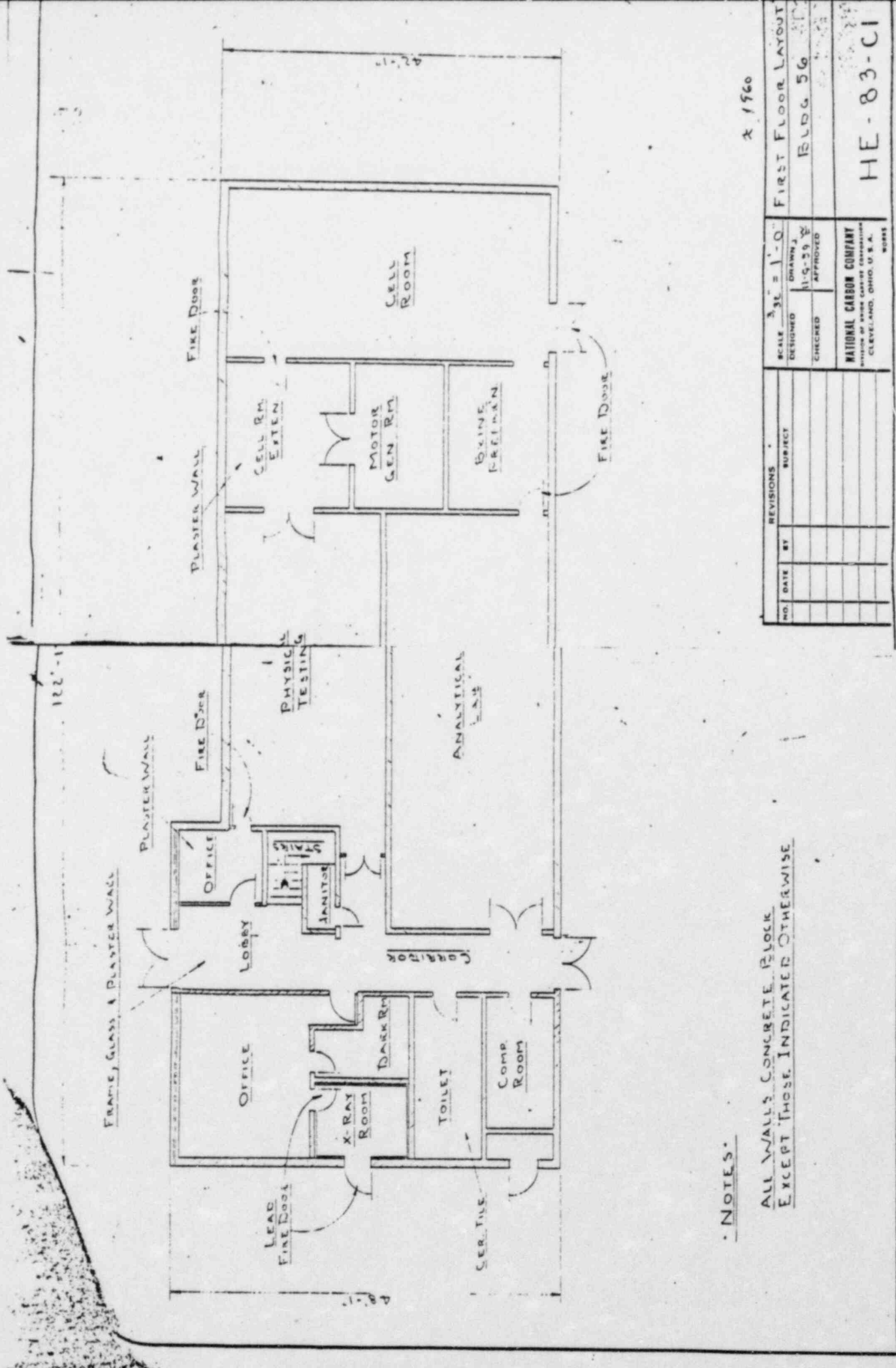
Encl.



IMPORTANT

THIS DRAWING IS THE PROPERTY OF UNION CARBIDE CORP., CARBON PRODUCTS DIVISION, AND MUST NOT BE TRACED OR REPRODUCED IN ANY MANNER, EXCEPT AS NECESSARY FOR USE WITHIN THE CUSTOMER'S OWN ORGANIZATION, NOR SHALL IT BE SUBMITTED TO ANY OUTSIDE PARTIES FOR EXAMINATION WITHOUT OUR CONSENT.

MATERIAL		HEAT TREAT		TOL. EXCEPT AS NOTED ±		FRACTION	DECIMAL	FILE NO.
A	6/25/82 M ₃₅	AEC INSPECTION		SCALE	DRAWN DATE	EST. No.	CUST. B.P. No.	
				NTS	MERKLING APRIL 12 1972	UNION CARBIDE CORP.		
				CEMENT No.	CHECKED DATE	CARBON PRODUCTS DIVISION		
				CPD-5	M. STEFFAN 6-25-82	NIAGARA PLANT		
					APPROVED DATE	• NATIONAL LOCATION •		
<p align="center">UNION CARBIDE CORP. CARBON PRODUCTS DIV. NIAGARA FALLS NEW YORK</p> 						<p align="center">SHEET 1/1 OF</p>		
								<p align="center">NO. DATE BY REVISIONS</p>



NOTES

ALL WALLS CONCRETE BLOCK
EXCEPT THOSE INDICATED OTHERWISE

2 1960

NO.		DATE		BY		REVISIONS		SUBJECT	
SCALE 3/8" = 1'-0"		DRAWN J. H. S. 11-5-59		CHECKED		APPROVED		FIRST FLOOR LAYOUT BLDG 56	
DESIGNED		DRAWN		CHECKED		APPROVED		NATIONAL CARBON COMPANY DIVISION OF AMER. CARBON CORPORATION CLEVELAND, OHIO, U.S.A.	
HE-83-C1									

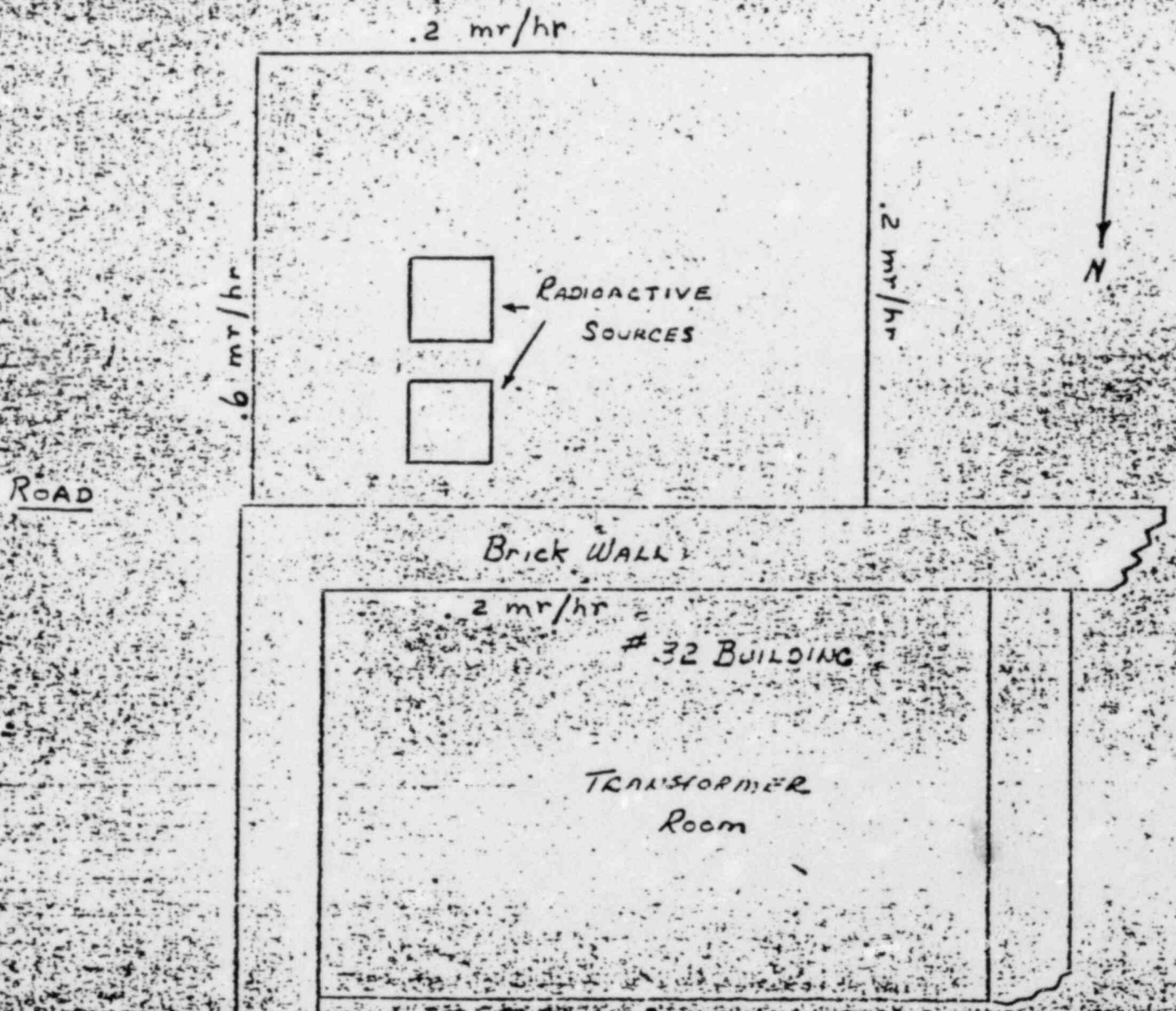
BY DATE

CHKD. BY DATE

SUBJECT RADIATION SURVEY
RADIOACTIVE SOURCE
STORAGE AREA

SHEET NO. OF

JOB NO.
FEB. 17, 1959



T. OSHEA