



RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST

2000-0041

6

RESPONSE TYPE FINAL PARTIAL

REQUESTER

Monica Gambino/Joseph Pohl

DATE

AUG 15 2000

PART I. -- INFORMATION RELEASED

- No additional agency records subject to the request have been located.
- Requested records are available through another public distribution program. See Comments section.
- APPENDICES Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- APPENDICES **F,G** Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 2120 L Street, NW, Washington, DC.
- APPENDICES **F,G** Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

PART I.A -- FEES

AMOUNT *
\$

- You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.
- You will receive a refund for the amount listed. Fees waived.

* See comments for details

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- No agency records subject to the request have been located.
- Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Carol Ann Reed

PART II.A -- APPLICABLE EXEMPTIONS

APPENDICES
G

Records subject to the request that are described in the enclosed Appendices are being withheld in their entirety or in part under the Exemption No.(s) of the PA and/or the FOIA as indicated below (5 U.S.C. 552a and/or 5 U.S.C. 552(b)).

- Exemption 1: The withheld information is properly classified pursuant to Executive Order 12958.
- Exemption 2: The withheld information relates solely to the internal personnel rules and procedures of NRC.
- Exemption 3: The withheld information is specifically exempted from public disclosure by statute indicated.
 - Sections 141-145 of the Atomic Energy Act, which prohibits the disclosure of Restricted Data or Formerly Restricted Data (42 U.S.C. 2161-2165).
 - Section 147 of the Atomic Energy Act, which prohibits the disclosure of Unclassified Safeguards Information (42 U.S.C. 2167).
 - 41 U.S.C., Section 253(b), subsection (m)(1), prohibits the disclosure of contractor proposals in the possession and control of an executive agency to any person under section 552 of Title 5, U.S.C. (the FOIA), except when incorporated into the contract between the agency and the submitter of the proposal.
- Exemption 4: The withheld information is a trade secret or commercial or financial information that is being withheld for the reason(s) indicated.
 - The information is considered to be confidential business (proprietary) information.
 - The information is considered to be proprietary because it concerns a licensee's or applicant's physical protection or material control and accounting program for special nuclear material pursuant to 10 CFR 2.790(d)(1).
 - The information was submitted by a foreign source and received in confidence pursuant to 10 CFR 2.790(d)(2).
- Exemption 5: The withheld information consists of interagency or intraagency records that are not available through discovery during litigation. Applicable privileges:
 - Deliberative process: Disclosure of predecisional information would tend to inhibit the open and frank exchange of ideas essential to the deliberative process. Where records are withheld in their entirety, the facts are inextricably intertwined with the predecisional information. There also are no reasonably segregable factual portions because the release of the facts would permit an indirect inquiry into the predecisional process of the agency.
 - Attorney work-product privilege. (Documents prepared by an attorney in contemplation of litigation)
 - Attorney-client privilege. (Confidential communications between an attorney and his/her client)
- Exemption 6: The withheld information is exempted from public disclosure because its disclosure would result in a clearly unwarranted invasion of personal privacy.
- Exemption 7: The withheld information consists of records compiled for law enforcement purposes and is being withheld for the reason(s) indicated.
 - (A) Disclosure could reasonably be expected to interfere with an enforcement proceeding (e.g., it would reveal the scope, direction, and focus of enforcement efforts, and thus could possibly allow recipients to take action to shield potential wrongdoing or a violation of NRC requirements from investigators).
 - (C) Disclosure would constitute an unwarranted invasion of personal privacy.
 - (D) The information consists of names of individuals and other information the disclosure of which could reasonably be expected to reveal identities of confidential sources.
 - (E) Disclosure would reveal techniques and procedures for law enforcement investigations or prosecutions, or guidelines that could reasonably be expected to risk circumvention of the law.
 - (F) Disclosure could reasonably be expected to endanger the life or physical safety of an individual.
- OTHER (Specify)

PART II.B -- DENYING OFFICIALS

Pursuant to 10 CFR 9.25(g), 9.25(h), and/or 9.65(b) of the U.S. Nuclear Regulatory Commission regulations, it has been determined that the information withheld is exempt from production or disclosure, and that its production or disclosure is contrary to the public interest. The person responsible for the denial are those officials identified below as denying officials and the FOIA/PA Officer for any denials that may be appealed to the Executive Director for Operations (EDO).

DENYING OFFICIAL	TITLE/OFFICE	RECORDS DENIED	APPELLATE OFFICIAL		
			EDO	SECY	IG
Hubert J. Miller	Regional Administrator, RI	Appendix G	✓		

Appeal must be made in writing within 30 days of receipt of this response. Appeals should be mailed to the FOIA/Privacy Act Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, for action by the appropriate appellate official(s). You should clearly state on the envelope and letter that it is a "FOIA/PA Appeal."

**APPENDIX F
RECORDS BEING RELEASED IN THEIR ENTIRETY**

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	12/13/56	Letter to L Johnson, AEC from W Trigg, Westinghouse (1 page)
2.	12/21/56	Letter to L Johnson, AEC from W Trigg, Westinghouse (1 page)
3.	1/6/57	Letter to Westinghouse from L Johnson, AEC (1 page)
4.	1/8/57	Letter to Westinghouse from L Johnson (1 page)
5.	11/11/58	Application for AEC License to Transfer, Deliver, Export, or Receive Uranium or Thorium Source Material, Westinghouse Electric Corp, Blairsville, PA (4 pages)
6.	11/11/58	Letter to J Delaney, AEC from R Rowley, Westinghouse Electric (1 page)
7.	11/12/58	Letter to Westinghouse Electric Corp from J Delaney, AEC (1 page)
8.	12/17/59	Application for AEC License to Transfer, Deliver, Export, or Receive Uranium or Thorium Source Material, Westinghouse Electric Corp, Blairsville, PA (4 pages)
9.	12/18/59	Letter to AEC from G Goodrow, Westinghouse Electric Corp (1 page)
10.	1/4/60	Letter to Westinghouse Electric Corp fro J Delaney, AEC (1 page)
11.	12/28/60	Application for AEC License to Transfer, Deliver, Export, or Receive Uranium or Thorium Source Material, Westinghouse Electric Corp, Blairsville, PA (4 pages)
12.	11/29/60	Letter to AEC from G Goodrow, Westinghouse Electric Corp (1 page)
13.	12/9/60	Letter to Westinghouse Electric Corp from J Delaney, AEC (1 page)
14.	8/14/61	Memorandum to L Dubinski from D Nussbaumer, Subject: Close-Out Inspection of a License Termination (1 page)
15.	2/7/62	Compliance Inspection Report, Westinghouse Electric Corp, Blairsville, PA (5 pages)

16. 11/28/61 Application for AEC License to Transfer, Deliver, Export, or Receive Uranium or Thorium Source Material, Westinghouse Electric Corp, Blairsville, PA (3 pages)
17. 12/5/61 Source Material License, Westinghouse Electric Corp, Blairsville, PA (1 page)
18. 2/15/62 Memorandum to E Price from L Dubinski, Subject: Westinghouse Electric Corporation, Blairsville, Pennsylvania, license Nos. SNM-37 and C-4971 with enclosures (5 pages)
19. 3/28/62 Letter to Westinghouse Electric Corp from E Price (1 page)
20. 11/19/64 Letter to Westinghouse Electric Corp from D Nussbaumer (1 page)
21. 1/11/65 Certification of Status of Source Material Activities Under US AEC License SUC-509 (1 page)
22. 1/15/71 Letter to AEC from K Schendel, Westinghouse Electric Corp (1 page)
23. 6/7/71 TWX from Westinghouse to AEC (2 pages)
24. 11/19/71 TWX from Westinghouse to AEC (1 page)
25. 4/13/72 Filing Instructions, Materials License SNM-1120 (11 pages)
26. Undated Docket Input Form 40-358 (2 pages)
27. Undated Expert System License Evaluation Report for License C-04971 (10 pages)

**APPENDIX G
RECORDS WITHHELD IN PART**

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u>
1.	1/12/71	Letter to AEC from P Koppel, Westinghouse Electric Corporation with attachment (4 pages) EX. 6

10102 ✓

Westinghouse

ELECTRIC CORPORATION



Blairsville, Pennsylvania

December 13, 1956

Mr. Lyle Johnson
Chief, License Branch
Division of License
U. S. Atomic Energy Comm.
1717 High Street, N. W.
Washington 25, D. C.

Dear Mr. Johnson:

Subject: Authorization to Procure Normal Uranium Melting Stock

In reference to our telephone conversation of December 10, 1956, it is requested that the Blairsville Metals Plant of the Westinghouse Electric Corporation be authorized to procure, to the extent not already covered under our License SNM-37, 1000 pounds of normal uranium melting stock for use in the preparation of uranium alloys for the fabrication of Fuel Plate Elements as outlined in Paragraph 2 (A) and (D) of our License Application. *SNM-37*

Material to be purchased should meet Westinghouse Electric Corporation specification PDS-12795-B. This specification is for a low carbon metal which is furnished to the Pittsburgh Area Office by the Fernald Area Office of the Atomic Energy Commission. If possible, material should be delivered in lengths of 1' to 4' with an approximate diameter of 1".

We understand that the Pittsburgh Area Office may make available to us a small amount of material which meets the specification of the material we wish to purchase. We would, therefore, appreciate authorization to purchase direct from the Pittsburgh Area Office whatever material they will release for direct sale.

We wish to thank you in advance for your early consideration of this request and for your past cooperation.

Very truly yours,

Warren M. Trigg
Warren M. Trigg, Manager

BLAIRSVILLE METALS PLANT

gwg:lcm

YOU CAN BE SURE... IF IT'S Westinghouse

ITEM # 23 *F11*

10229

✓

Westinghouse

ELECTRIC CORPORATION



Blairsville, Pa.

December 21, 1956

Mr. Lyle Johnson
Chief, License Branch
U. S. Atomic Energy Commission
Division of License
1717 High Street, N.W.
Washington 25, D. C.

Dear Mr. Johnson:

Subject: Authorization to Procure Normal Uranium
Melting Stock

Referring to our letter of December 13 and telephone conversation of December 20 on the above subject, we wish to advise you that we can accept low carbon uranium in other form than that specified in our letter. Since we intend to use this material for melting stock, it will be possible for us to use billets, bar croppings, or other shapes which may be more readily available.

Yours very truly,

W. M. Trigg, Manager

MATERIALS MANUFACTURING
DEPARTMENT

wmt*fms

F12

ITEM # 22

UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

SOURCE MATERIAL LICENSE

License No. C-3640

Dated: JAN 6 1957

Westinghouse Electric Corporation
Box 128
Blairsville, Pennsylvania

Attention: Mr. Warren M. Trigg, Manager
Blairsville Metals Plant

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to one thousand pounds of refined source material* during the term of this license for use in the preparation of alloys for the fabrication of fuel elements.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of issuance of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission. Except as herein provided, it is subject also to the provisions of the Commission's proposed regulations, published in the Federal Register July 16, 1955, Title 10, Code of Federal Regulations, Part 20, entitled "Standards for Protection Against Radiation" until such time as said proposed regulations or revisions thereof shall become effective regulations of the Commission. Notwithstanding Section 20.24(f) of said standards, labeling shall not be required for laboratory containers such as beakers, flasks and test tubes, used transiently in laboratory procedures during presence of the user.

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire February 1, 1958.

ITEM # 21 / 28

FOR THE ATOMIC ENERGY COMMISSION

J 1/8/57
Lyall Johnson
Chief, Licensing Branch
Division of Civilian Application

*uranium metal

REB
DICTATED

APPROVED

Central Files
SM

CAL:RFB

JAN 8 1957

Westinghouse Electric Corporation
Box 128
Blairsville, Pennsylvania

Attention: Mr. Warren M. Trigg, Manager
Blairsville Metals Plant

Gentlemen:

Enclosed is Source Material License No. C-3640.

This letter constitutes your authorization to purchase from the AEC, prior to May 1, 1957, one thousand pounds of normal uranium metal melting stock for use under your License No. C-3640.

For details regarding the purchase of this material you should communicate with the Oak Ridge Operations Office, U. S. Atomic Energy Commission, P. O. Box E, Oak Ridge, Tennessee, Attention: Dr. H. M. Roth.

Very truly yours,

Dispatched.

Lyall Johnson
Chief, Licensing Branch
Division of Civilian Application

Enclosures:

- 1. Lic No. C-3640
- 2. 10 CFR 20

cc: Roth, Oak Ridge Oper Off, w/cy Lic, ltrs 12/13/56 and 12/21/56 fm Westinghouse
 Mann, INS " " "
 Docket " " "
 Musser, NMM " " "
 Ryan, FIN (2) " " "
 Labowitz, PROD " " "
 Steele, CA " " "

I HEREBY CERTIFY THAT THE ABOVE QUANTITY WILL NOT EXCEED MATERIAL APPROVED FOR THIS DIVISION FOR FISCAL YEAR 1957.

[Signature]
D. F. Musser, Director
Division of Nuclear
Materials Management

[Handwritten signature]
Docket

ITEM # 20

JAN 8 1957

OFFICE ▶	CAL	CAL	CAL	FIN	
SURNAME ▶	1/3/56 <i>[Signature]</i>	1/3/56 <i>[Signature]</i>	1/3/56 <i>[Signature]</i>	1/3/57 <i>[Signature]</i>	
DATE ▶	RFBorlik:ew	CTEdwards	LJohnson	MKKellogg	

FORM AEC-2
(9-55)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION

Form approved.
Budget Bureau No. 33-R002.4.

**APPLICATION FOR AEC LICENSE TO
TRANSFER, DELIVER, EXPORT, OR RECEIVE
URANIUM OR THORIUM SOURCE MATERIAL**

Pursuant to Code of Federal Regulations, Title 10—
Atomic Energy, Part 40—Control of Source Material

2. PREVIOUS AEC LICENSE NUMBER, IF ANY.

C-3640

INSTRUCTIONS

File two (2) copies of this application with the U. S. Atomic Energy Commission, 1901 Constitution Ave. NW., Washington 25, D. C. This application may be used for an original license or for the renewal of a license. In the case of a renewal, this application should be received by the Commission on or before 30 days before the expiration of the previous license. Complete blocks 1, 2, 3, 9, and if you combine two or more of the activities of Producer, Processor, Distributor, Exporter, or Consumer, complete each of the applicable blocks numbered 4 through 8.

TO: U. S. Atomic Energy Commission,
1901 Constitution Ave. NW.,
Washington 25, D. C.

1. NAME AND ADDRESS OF APPLICANT
(Street, city, zone, state)

Westinghouse Electric Corporation
Materials Manufacturing Department
P.O. Box 128
Blairsville, Pennsylvania

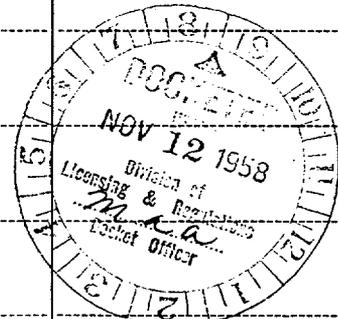
3. INVENTORY. INVENTORY OF SOURCE MATERIAL, RAW AND REFINED, AS OF November 8, 1958

(Specify date of last inventory)

INSTRUCTION.—Include all source material in your possession or under your control, regardless of location. Include any source material you have possession of but which is owned by others, whether or not they are licensees of the Commission. Please specify that part of your inventory which is owned by other persons, listing the names, addresses, and quantities owned by each. Do not include in this inventory any raw source material not yet removed from its place of deposit in nature.

(a) Raw Source Material

DESCRIPTION OF MATERIAL	ESTIMATED PERCENT URANIUM OR THORIUM	QUANTITY IN INVENTORY (Gross tons)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE



(b) Refined Source Material

DESCRIPTION OF MATERIAL	GRADE (Comm., CP, USP, etc.)	PERCENT OF URANIUM OR THORIUM	QUANTITY (Lb.)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
Uranium Dioxide (UO ₂)	CP	88.1	103	Same as block (1)
Uranium Metal (Reject slugs)	CP	100.	990	Same as block (1)
Uranium Dioxide (Depleted)	CP	88.0	106	Same as block (1)
		Total	1199	

F/S

ITEM # 19

(4)

5. PROCESSORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO CHEMICALLY PROCESS SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK, AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

(a) THE APPLICANT CHEMICALLY PROCESSES SOURCE MATERIAL IN PLANTS LOCATED AT: *(These plants include all of the plants in which the applicant will process source material under the terms of any license issued by the Commission.)*

1.

2.

3.

4.

(b) IN THE EVENT RESIDUES AND TAILINGS ARE TO BE DISCARDED PLEASE DESCRIBE THESE RESIDUES AND TAILINGS, THE FREQUENCY OF DISCARDS, THE PROBABLE SOURCE MATERIAL CONTENT AND THE REASONS FOR NOT CONSERVING THE MATERIAL:

6. DISTRIBUTORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO RECEIVE SOURCE MATERIAL FOR RESALE ONLY, WITHOUT ANY INTERMEDIATE PROCESSING, CHECK THIS BOX AND COMPLETE BLOCKS 1, 2, 3, AND 9.

7. CONSUMERS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO USE SOURCE MATERIAL IN CHEMICAL ANALYSIS OR IN THE MANUFACTURE OF, OR FOR INCORPORATION IN, ANY PRODUCT, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

DESCRIPTION OF SOURCE MATERIAL TO BE USED	ESTIMATED ANNUAL REQUIREMENTS (Lb.)	USES
		INDICATE WHETHER (1) AS ANALYTICAL REAGENT, (2) FOR INCANDESCENT MAN- TLES, (3) MEDICINAL, OR (4) OTHER. IN THE CASE OF OTHER USES, DESCRIBE THE PRODUCT, THE SOURCE MATERIAL CONTENT, AND THE MANNER IN WHICH THE PRODUCT WILL BE USED.
Uranium Dioxide (UO ₂)	2500	The source materials will be used in Research and Development programs designed for the development of manufacturing processes for ceramic type fuel pellets and the fabrication of Uranium-alloy fuel elements. All source material will be of re-agent grade purity composed of normal or depleted uranium.
Uranium Dioxide (Depleted)	1000	
Total	3500	

8. EXPORTERS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO EXPORT SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE BALANCE OF THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9. *(Note that approval on Form AEC-7 is required for each individual export transaction.)*

Name and address of each of your agents who for your account will prepare Department of Commerce "Shipper's Export Declaration" (Form 7525-V), will request permission to export on Form AEC-7, and will ship source material.

NAME OF AGENT	ADDRESS

9. CERTIFICATION AND AGREEMENT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION AND AGREEMENT ON BEHALF OF THE APPLICANT (1) CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH CODE OF FEDERAL REGULATIONS, TITLE 10—ATOMIC ENERGY, PART 40—CONTROL OF SOURCE MATERIAL; (2) CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF; AND (3) AGREE THAT IN THE EVENT THAT THIS APPLICATION IS APPROVED BY THE ATOMIC ENERGY COMMISSION, AND A LICENSE IS ISSUED, THAT THE DULY AUTHORIZED REPRESENTATIVES OF THE COMMISSION MAY FREELY INSPECT AT ALL REASONABLE TIMES FACILITIES AND RECORDS, TAKE SAMPLES FOR ASSAY, AND DO SUCH OTHER THINGS AS WILL, IN THE OPINION OF THE COMMISSION, ASSURE THAT ALL SOURCE MATERIAL HANDLED BY THE APPLICANT UNDER THE AUTHORITY OF HIS LICENSE, IS PROPERLY ACCOUNTED FOR AND USED.

BY R. D. Rowley *R. D. Rowley*
(Signature of applicant)

Manager (Title)

November 11, 1958
(Date)

Section 35 (A) of the United States Criminal Code, 18 U. S. C. Sec. 80, 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.

(FOR GOVERNMENT USE ONLY)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION
SOURCE MATERIAL LICENSE

LICENSE NO. _____

Westinghouse

ELECTRIC CORPORATION



BLAIRSVILLE, PA.

November 11, 1958

Mr. Joseph C. Delaney, Chief
Materials Branch
Division of Licensing and Regulations
United States Atomic Energy Commission
Germantown District
Washington 25, D.C.

Subject: RENEWAL OF SOURCE MATERIAL LICENSE C-3640

Dear Mr. Delaney:

This is to request the renewal of our license C-3640 which expired on February 1, 1958.

We would appreciate it if our license could be reissued under the expired license number C-3640, and include the receipt, storage, and transfer of depleted uranium.

As of our last inventory which was conducted November 8, 1958, we have in our possession 103 pounds of uranium dioxide (UO₂), 990 pounds of uranium metal (reject slugs), and 106 pounds of uranium dioxide (depleted). These materials will be used in research and development programs designed for the development of manufacturing processes for ceramic type fuel pellets and the fabrication of uranium alloy fuel elements.

We regret the oversight in permitting our license to expire, and appreciate the interest and guidance shown by your staff in assisting us in obtaining a renewal of our license.

Yours very truly,

R. D. Rowley
R. D. Rowley, Manager

Materials Manufacturing
Department

rdr*fms
attachments



ITEM # 18916



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

IN REPLY REFER TO:

40-3558
IRLAND

Westinghouse Electric Corporation
Materials Manufacturing Department
P.O. Box 128
Blairsville, Pennsylvania

SOURCE MATERIAL LICENSE

License No. ~~C-4415~~

Dated: NOV 12 1958

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to at the above stated location, thirty five hundred (3,500) pounds of source material for use in the preparation of alloys for the fabrication of fuel elements.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission, including 10 CFR 20, "Standards For Protection Against Radiation."

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire November 30, 1959.

FOR THE ATOMIC ENERGY COMMISSION

J. C. Delaney
Chief, Materials Section
Licensing Branch
Division of Licensing and Regulation

9/17

ITEM # 17

See off

FORM AEC-2
(9-58)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION

Form approved
Budget Bureau No. 38-R002.4

APPLICATION FOR AEC LICENSE TO
TRANSFER, DELIVER, EXPORT, OR RECEIVE
URANIUM OR THORIUM SOURCE MATERIAL

Pursuant to Code of Federal Regulations, Title 10—
Atomic Energy, Part 40—Control of Source Material

2. PREVIOUS AEC LICENSE NUMBER, IF ANY.
C-4415

INSTRUCTIONS

File two (2) copies of this application with the U. S. Atomic Energy Commission, 1901 Constitution Ave. NW., Washington 25, D. C. This application may be used for an original license or for the renewal of a license. In the case of a renewal, this application should be received by the Commission on or before 30 days before the expiration of the previous license. Complete blocks 1, 2, 3, 9, and if you combine two or more of the activities of Producer, Processor, Distributor, Exporter, or Consumer, complete each of the applicable blocks numbered 4 through 8.

TO: U. S. Atomic Energy Commission,
1901 Constitution Ave. NW.,
Washington 25, D. C.

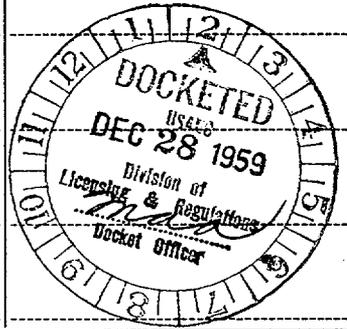
1. NAME AND ADDRESS OF APPLICANT
(Street, city, zone, state)
Westinghouse Electric Corporation
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

3. INVENTORY. INVENTORY OF SOURCE MATERIAL, RAW AND REFINED, AS OF December 14, 1959
(Specify date of last inventory)

INSTRUCTION.—Include all source material in your possession or under your control, regardless of location. Include any source material you have possession of but which is owned by others, whether or not they are licensees of the Commission. Please specify that part of your inventory which is owned by other persons, listing the names, addresses, and quantities owned by each. Do not include in this inventory any raw source material not yet removed from its place of deposit in nature.

(a) Raw Source Material

DESCRIPTION OF MATERIAL	ESTIMATED PERCENT URANIUM OR THORIUM	QUANTITY IN INVENTORY (Gross tons)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
DNA			



(b) Refined Source Material

DESCRIPTION OF MATERIAL	GRADE (Comm., CP, USP, etc.)	PERCENT OF URANIUM OR THORIUM	QUANTITY (Lb.)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
Uranium Dioxide	CP	88.1	98	Same as Block (1)
Uranium Metal	CP	100	990	Same as Block (1)

F18

FOLD HERE FOR FILING

ITEM # 15 (14)

9. **CERTIFICATION AND AGREEMENT.** THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION AND AGREEMENT ON BEHALF OF THE APPLICANT (1) CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH CODE OF FEDERAL REGULATIONS, TITLE 10—ATOMIC ENERGY, PART 40—CONTROL OF SOURCE MATERIAL; (2) CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF; AND (3) AGREE THAT IN THE EVENT THAT THIS APPLICATION IS APPROVED BY THE ATOMIC ENERGY COMMISSION, AND A LICENSE IS ISSUED, THAT THE DULY AUTHORIZED REPRESENTATIVES OF THE COMMISSION MAY FREELY INSPECT AT ALL REASONABLE TIMES FACILITIES AND RECORDS, TAKE SAMPLES FOR ASSAY, AND DO SUCH OTHER THINGS AS WILL, IN THE OPINION OF THE COMMISSION, ASSURE THAT ALL SOURCE MATERIAL HANDLED BY THE APPLICANT UNDER THE AUTHORITY OF HIS LICENSE, IS PROPERLY ACCOUNTED FOR AND USED.

BY R. D. Rowley *R. D. Rowley*
(Signature of applicant)
December 17, 1959 Manager
(Date) (Title)

Section 35 (A) of the United States Criminal Code, 18 U. S. C. Sec. 80, 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.

(FOR GOVERNMENT USE ONLY)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION
SOURCE MATERIAL LICENSE

LICENSE NO. _____

Form AEC-2 (9-55)

5. PROCESSORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO CHEMICALLY PROCESS SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK, AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

(a) THE APPLICANT CHEMICALLY PROCESSES SOURCE MATERIAL IN PLANTS LOCATED AT: (These plants include all of the plants in which the applicant will process source material under the terms of any license issued by the Commission.)

1. DNA

2.

3.

4.

(b) IN THE EVENT RESIDUES AND TAILINGS ARE TO BE DISCARDED PLEASE DESCRIBE THESE RESIDUES AND TAILINGS, THE FREQUENCY OF DISCARDS, THE PROBABLE SOURCE MATERIAL CONTENT AND THE REASONS FOR NOT CONSERVING THE MATERIAL:

6. DISTRIBUTORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO RECEIVE SOURCE MATERIAL FOR RESALE ONLY, WITHOUT ANY INTERMEDIATE PROCESSING CHECK THIS BOX AND COMPLETE BLOCKS 1, 2, 3, AND 9.

7. CONSUMERS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO USE SOURCE MATERIAL IN CHEMICAL ANALYSIS OR IN THE MANUFACTURE OF, OR FOR INCORPORATION IN, ANY PRODUCT, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

DESCRIPTION OF SOURCE MATERIAL TO BE USED	ESTIMATED ANNUAL REQUIREMENTS (Lb.)	USES
		INDICATE WHETHER (1) AS ANALYTICAL REAGENT, (2) FOR INCANDESCENT MAN- TLES, (3) MEDICINAL, OR (4) OTHER. IN THE CASE OF OTHER USES, DESCRIBE THE PRODUCT, THE SOURCE MATERIAL CONTENT, AND THE MANNER IN WHICH THE PRODUCT WILL BE USED.
DNA		

8. EXPORTERS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO EXPORT SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE BALANCE OF THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9. (Note that approval on Form AEC-7 is required for each individual export transaction.)

Name and address of each of your agents who for your account will prepare Department of Commerce "Shipper's Export Declaration" (Form 7525-V), will request permission to export on Form AEC-7, and will ship source material.

NAME OF AGENT	ADDRESS
DNA	

Westinghouse

ELECTRIC CORPORATION



DOCKET NO. 40-3558

December 18, 1959

P.O. BOX 128
BLAIRSVILLE, PA.

U. S. Atomic Energy Commission
1901 Constitution Ave., N. W.
Washington 25, D. C.

Attention: Mr. L. Johnson, Chief, Licensing Branch

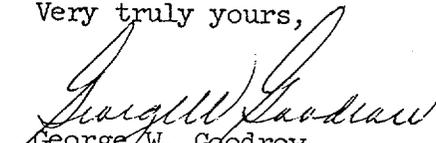
Gentlemen:

Enclosed are two copies of our application to receive and transfer uranium source material.

Since our previous Source Material License C-4415 expired on November 30, 1959, and a renewal application was not submitted until this time, would it be possible, upon acceptance of the enclosed application, to re-issue the C-4415 license number?

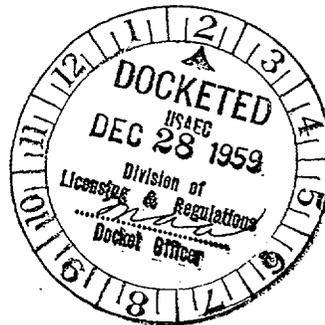
We regret the inconvenience that we may have caused as a result of permitting this license to expire.

Very truly yours,


George W. Goodrow
Staff Supv. - Industrial Relations

gc

Encl. - 2



ITEM # 16

F19

YOU CAN BE SURE... IF IT'S Westinghouse

LRLE:MD
10-3558

JAN 4 1960

Westinghouse Electric Corporation
P. O. Box 128
Pittsville, Pennsylvania

Attention: Mr. George W. Goodrow
State Supervisor
Industrial Relations

Gentlemen:

Pursuant to your request of December 18, 1959, we are enclosing Source Material License No. C-4971.

As your request for renewal of License No. C-4971 was not submitted prior to its expiration date, we do not use the same number under these circumstances.

Very truly yours,

J. G. Delaney
Chief, Nuclear Materials Section
Licensing Branch
Division of Licensing and Regulation

Enclosure:
License No. C-4971

ITEM #

14

F/10

DUCKETT INV. 40-3358

FORM AEC-2
(9-25)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION

Form approved.
Budget Bureau No. 38-R002.5.

**APPLICATION FOR AEC LICENSE TO
TRANSFER, DELIVER, EXPORT, OR RECEIVE
URANIUM OR THORIUM SOURCE MATERIAL**

Pursuant to Code of Federal Regulations, Title 10—
Atomic Energy, Part 40—Control of Source Material

2. PREVIOUS AEC LICENSE NUMBER, IF ANY.

C-4971

INSTRUCTIONS

File two (2) copies of this application with the U. S. Atomic Energy Commission, 1901 Constitution Ave. NW., Washington 25, D. C. This application may be used for an original license or for the renewal of a license. In the case of a renewal, this application should be received by the Commission on or before 30 days before the expiration of the previous license. Complete blocks 1, 2, 3, 9, and if you combine two or more of the activities of Producer, Processor, Distributor, Exporter, or Consumer, complete each of the applicable blocks numbered 4 through 8.

TO: U. S. Atomic Energy Commission,
1901 Constitution Ave. NW.,
Washington 25, D. C.

1. NAME AND ADDRESS OF APPLICANT
(Street, city, zone, state)

Westinghouse Electric Corporation
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

3. INVENTORY. INVENTORY OF SOURCE MATERIAL, RAW AND REFINED, AS OF November 1, 1960
(Specify date of last inventory)

INSTRUCTION.—Include all source material in your possession or under your control, regardless of location. Include any source material you have possession of but which is owned by others, whether or not they are licensees of the Commission. Please specify that part of your inventory which is owned by other persons, listing the names, addresses, and quantities owned by each. Do not include in this inventory any raw source material not yet removed from its place of deposit in nature.

(a) Raw Source Material

DESCRIPTION OF MATERIAL	ESTIMATED PERCENT URANIUM OR THORIUM	QUANTITY IN INVENTORY (Gross tons)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
DNA			



(b) Refined Source Material

DESCRIPTION OF MATERIAL	GRADE (Comm., CP, USP, etc.)	PERCENT OF URANIUM OR THORIUM	QUANTITY (Lb.)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
Uranium Metal	CP	100	342.5	Same as 1 above

F/11

ITEM # 12

(4)

9. CERTIFICATION AND AGREEMENT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION AND AGREEMENT ON BEHALF OF THE APPLICANT (1) CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH CODE OF FEDERAL REGULATIONS, TITLE 10—ATOMIC ENERGY, PART 40—CONTROL OF SOURCE MATERIAL; (2) CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF; AND (3) AGREE THAT IN THE EVENT THAT THIS APPLICATION IS APPROVED BY THE ATOMIC ENERGY COMMISSION, AND A LICENSE IS ISSUED, THAT THE DULY AUTHORIZED REPRESENTATIVES OF THE COMMISSION MAY FREELY INSPECT AT ALL REASONABLE TIMES FACILITIES AND RECORDS, TAKE SAMPLES FOR ASSAY, AND DO SUCH OTHER THINGS AS WILL, IN THE OPINION OF THE COMMISSION, ASSURE THAT ALL SOURCE MATERIAL HANDLED BY THE APPLICANT UNDER THE AUTHORITY OF HIS LICENSE, IS PROPERLY ACCOUNTED FOR AND USED.

BY R. D. Rowley / R. D. Rowley
(Signature of applicant)

November 28, 1960
(Date)

Manager
(Title)

Section 35 (A) of the United States Criminal Code, 18 U. S. C. Sec. 80, 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.

(FOR GOVERNMENT USE ONLY)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION
SOURCE MATERIAL LICENSE

LICENSE NO. _____

5. PROCESSORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO CHEMICALLY PROCESS SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK, AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

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DESCRIPTION OF SOURCE MATERIAL TO BE USED	ESTIMATED ANNUAL REQUIREMENTS (Lb.)	USES
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Name and address of each of your agents who for your account will prepare Department of Commerce "Shipper's Export Declaration" (Form 7525-V), will request permission to export on Form AEC-7, and will ship source material.

NAME OF AGENT	ADDRESS
DNA	

Westinghouse

ELECTRIC CORPORATION

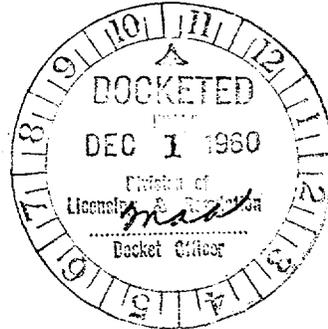


DOCKET NO.

NO. 40-3558

November 29, 1960

P.O. BOX 128
BLAIRSVILLE, PA.



U. S. Atomic Energy Commission
1901 Constitution Ave., N.W.
Washington 25, D. C.

Gentlemen:

Enclosed for your consideration is our application for the renewal of License C-4971.

Please do not hesitate to call upon the writer should you desire any additional information.

Very truly yours,

George W. Goodrow
Staff Supv.-Industrial Relations

BLAIRSVILLE METALS PLANT

gc

Enclosures

9/12

ITEM # 13

YOU CAN BE SURE... IF IT'S Westinghouse



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

IN REPLY REFER TO:

40-3556
LAR:ND

Westinghouse Electric Corporation
Materials Manufacturing Department
Blairsville, Pennsylvania

Attention: Mr. George W. Goodrow

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to , at the above stated location, thirty-five hundred (3,500) pounds of source material for use in the preparation of alloys for the fabrication of fuel elements, in accordance with the procedures described in your application for special nuclear material license SM-37.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission, including 10 CFR 20, "Standards For Protection Against Radiation."

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire December 31, 1961.

FOR THE ATOMIC ENERGY COMMISSION

J. C. Delaney
Chief, Nuclear Materials Branch
Division of Licensing & Regulation

ITEM # 11

F/13

Memorandum

TO : Leo Dubinski, Assistant Director for
Materials, Division of Compliance

DATE: AUG 14 1961

FROM : Donald A. Nussbaumer, Chief, Source & Special
Nuclear Materials Branch, Division of Licensing & Regulation

SUBJECT: CLOSE-OUT INSPECTION OF A LICENSE TERMINATION

LR:JUL

file attached

We have been advised by Westinghouse Electric Corporation in letter dated February 28, 1961, that they will not renew their Special Nuclear Material License No. SSM-37 - Docket 70-25. This license covers their fuel element fabrication processes at their metals plant in Blairsville, Pennsylvania, and expired July 1, 1961.

In view of the large quantity of special nuclear material that has been handled at this site for the past few years, it is requested that a close-out inspection be made at this site to verify that all licensed materials have been transferred from the site in accordance with the regulations and to determine the extent of radioactive contamination, if any, of the premises and equipment.

Attachment:
Cy ltr dtd 2-28-61

*ISI
Qm*

RECEIVED
DIVISION OF LICENSING & REGULATION
AUG 15 1961
00874

F114

ITEM # 9

COMPLIANCE INSPECTION REPORT

1. Name and address of licensee WESTINGHOUSE ELECTRIC CORPORATION Materials Manufacturing Department P. O. Box 128 Blairsville, Pa.	2. Date of inspection October 18, 1961
	3. Type of inspection Initial & Reinspection
	4. 10 CFR Part(s) applicable 20 - 40 - 70

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

License No.	Date	Exp. Date	Docket No.
IV B C-4971 (Initial)	12/9/60	12/31/61	40-3558
(See report details for scope and conditions)			
II A SNM-37 (Reinspection)	9/9/60	7/1/61	70-26

6. Inspection findings (and items of noncompliance)

The inspection of the licensee's fuel fabrication facility of the Westinghouse Materials Plant, Blairsville, Pennsylvania, where special nuclear material had been processed, was made after all material and associated equipment had been transferred and the facility decontaminated. The inspection consisted of (1) a review of the action taken by the licensee to return the facility to a normal status (uncontaminated), (2) a review of the licensee's survey results at completion of their decontamination, (3) a review of records of transfers, and (4) a contamination survey of the facility by the inspector. Contamination of the facility was found to be insignificant. The only licensed material in the possession of the licensee was 364.5 pounds of natural uranium bars which had been in storage since December of 1960. No items of noncompliance were observed or noted by the inspector during the course of the inspection.

7. Date of last previous inspection

March 15 & 16, 1960 - SNM-37

8. Is "~~Company Confidential~~" information contained in this report? Yes No

(Specify page(s) and paragraph(s))

~~Entire Report~~

DISTRIBUTION:

3 CYS - CO:HQ

2 CYS - BUA

Paul R. Nelson

(Inspector)

Approved by

Robert W. Kirkman, Director
Region I, Division of Compliance

(Operations office)

February 7, 1962

(Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to head format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form under appropriate item.

16-78814-2 U. S. GOVERNMENT PRINTING OFFICE

RECOMMENDATIONS SHOULD BE SET FORTH IN A SEPARATE COVERING MEMORANDUM

9/15

PART 40 - 70 INSPECTION

WESTINGHOUSE ELECTRIC CORPORATION
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

Date of Inspection: October 18, 1961 (Announced)

Persons Accompanying Inspector:

Mr. G. Brown, Health Physicist, AEC, Region I, Division of Compliance
Mr. Stang, Regional Industrial Hygienist, Pennsylvania Department of
Health

Persons Contacted and Titles:

Mr. R. C. Humphrey, Manager of Management and Staff Services
Mr. G. Goodrow, Accountability Representative
Mr. W. C. McKee, Safety Inspector and Radiation Safety Officer
Mr. P. Morrow, Accountability Supervisor of Atomic Fuel Department,
Cheswick, Pennsylvania

DETAILS

Background Information

9. On March 15 and 16, 1960, an inspection of the activities being conducted under License No. SNM-37 was conducted by Mr. John R. Sears of this office. The report forwarded to Inspection Headquarters under memorandum dated March 28, 1960, listed items of noncompliance with Sections 20.201 (b), "Surveys", 20.103 (b) "Concentrations in effluents to unrestricted areas", 20.305 "Treatment or disposal by incineration", and 70.24 (2) "Additional requirements", in that no evacuation drills had been conducted.
10. On January 30, 1961, the Division of Licensing and Regulation informed the licensee of the items of noncompliance with the exception of the item concerning 20.103 (b) "Concentrations in effluents to unrestricted areas".
11. The licensee, by letter of February 28, 1961, informed DL&R that the comments in their (DL&R) letter of January 30, 1961, were no longer applicable in that (1) all manufacturing activities performed under SNM-37 had been discontinued, (2) all nuclear bearing material and associated processing and handling equipment had been transferred to the Corporation's Atomic Fuel Department, located at Cheswick, Pennsylvania, (3) the current quantity of special nuclear material on hand, totalling approximately 46,311 grams of U-235, had been packaged and would be returned to a reclamation site in approximately 60 to 90 days, and (4) the areas in which special nuclear materials had been handled or processed were being decontaminated and renovated.
12. On August 21, 1961, the Division of Compliance, Headquarters, informed this office that Westinghouse Electric Corporation was not renewing their Special Nuclear Material License No. SNM-37 which covered their

fuel fabrication at Blairsville, Pennsylvania and that the license had expired on July 1, 1961. Headquarters requested, in view of the large quantity of special nuclear material that had been processed and used at the licensee's facilities during the past few years, that an appropriate inspection be made to verify that all licensed material had been disposed of in accordance with the regulations and to determine the extent of radioactive contamination, if any, to the premises and equipment.

13. On October 18, 1961, the inspection of SNM-37, as now being reported, was made as requested. Included was an inspection of the activities being conducted under the licensee's source License C-4971.

Facility Decontamination

14. The decontamination of the special nuclear material processing area (60' x 160') was described as follows:

- (1) All of the usable equipment was transferred to the Atomic Fuel Department at Cheswick, Pennsylvania, after removal of loose contamination and after wrapping in plastic. This equipment consisted of water hold up tanks, rolling mills, a press, storage racks, hoods, milling machines, furnaces, delpark filter apparatus, exhaust fans, duct work, and conduit.
- (2) All non-usable contaminated material which was not combustible and could not be decontaminated, was shipped to Oak Ridge for burial. This material consisted of wall material, metal containers, furnace brick, hand tools, some equipment such as hood structures.
- (3) All non-usable material which was not contaminated, as determined by direct measurements (Eberline portable scintillation meter) and smear surveys, was disposed of to the licensee's own dump. This material consisted of such items as concrete blocks (painted prior to use of the facility), sheet metal, transite, etc.
- (4) All contaminated combustible material was incinerated as authorized by SNM-37, amended September 9, 1960. The resulting ash was shipped to Oak Ridge.
- (5) The entire Nuclear Fuel Area was then vacuumed, beginning with the ceiling.
- (6) The entire Area was then washed down, starting with the ceiling.
- (7) The entire Area was then isolated by means of plastic, maintained in a wet condition and the walls removed, brick by brick.
- (8) The final step was the decontamination of the floor which consisted of:
 - (a) Initial scrub down
 - (b) Paint removal
 - (c) Second scrub down
 - (d) Hot-spots etched with acid
 - (e) Filling of sumps with concrete
 - (f) Removal of some concrete

Licensee's Survey Results

15. A final smear survey of the floor in the Nuclear Fuel Area by the licensee (walls having been removed) revealed levels of 0 to 14 d/m/ft². Of the 75 smears taken, three were greater than 10 d/m.

Inspectors Survey Results

16. A contamination survey was made by the inspector of the area where special nuclear material had been processed, an area approximately 60 feet by 160 feet. The survey consisted of direct radiation measurements of the floor using an end window GM as well as smears. No reading could be detected (less than 0.05 μ rad/hr) with the open window positioned approximately one to two inches from the floor. The smears, which were counted by NYOO, Health and Safety Laboratory for alpha activity, revealed all floor areas to have less than 10 d/m/ft² of removable contamination with the exception of one area of 16 d/m. The maximum amount of removable contamination, 320 d/m/ft², was found on a horizontal surface above floor level in an area which had previously been a storage room. The other smears of horizontal surfaces in this storage area showed loose contamination of 150, 180, 44, and 42 d/m/ft². A sketch of the Nuclear Fuel Area, showing smear locations and results, has been included as Exhibit "A".

Transfer and Inventory Records

17. A review of the licensee's inventory and transfer record indicated that no special nuclear material was in their possession as of June 30, 1961. The licensee's "Material Status Report" showing a beginning inventory of 46,311 grams of U-235 and an ending inventory of zero on 6/30/61 has been included as Exhibit "B". A schedule of receipts and removals, showing the licensee's disposition of the 46,311 grams of U-235 plus an additional 872 grams, has been included as Exhibit "C".
18. Humphrey, Manager of Management and Staff Services, stated that an inventory was made listing all of the equipment used in the Nuclear Fuel Area, which was carefully followed to ensure that each piece shipped was received by the Atomic Fuel Department at Cheswick, Pennsylvania. He added that trucks were rented and Westinghouse personnel performed the transfer which required 20 to 30 truck loads. The transfer records for this equipment consist of L orders. A list of the L order numbers totalling 45 are included in the licensee's file.
19. The record covering the transfer of non-combustible waste to Oak Ridge was reported by Humphrey as being on AEC Shipping Form SF 101-WFP-CYT-48. This shipment required a total of 27 drums.

C-4971

20. The licensee at the time of the inspection possessed a total of 364.5 pounds of uranium in the form of metal bars. Their license authorized possession of 3,500 pounds of source material. The material, which had not been used since December of 1960 was in

C-4971

storage within a locked concrete block building located within a locked security area enclosed by an eight foot fence. This area, designated as the "Contaminated Disposal Area", is under a 24 hour security guard with only the guards possessing keys to the area and building.

21. The initial and only shipment of uranium totaling 998.1 pounds was received in 1957 from National Lead. The material was used for qualifying runs in fuel element production and some development work associated with fuel element fabrication. Records of receipt and use were available.
22. The fence around the "Contaminated Disposal Area" was posted on all four sides with the sign worded, "Caution - Radioactive Material" and showing the prescribed radiation symbol.
23. The wooden box in which the uranium metal was stored was tagged with the sign worded, "Caution - Radioactive Material", displaying the prescribed radiation symbol and showing the kind, quantity, and date of measurement of the quantity of radioactive material it contained.
24. A survey by the inspector revealed the maximum accessible dose rate, as measured 12 to 18 inches from the storage box, was 3 mr/hr.

DOCKETED NOV 40-3558

FORM (9-55) AEC-2

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION

Form approved.
Budget Bureau No. 88-R0025

**APPLICATION FOR AEC LICENSE TO
TRANSFER, DELIVER, EXPORT, OR RECEIVE
URANIUM OR THORIUM SOURCE MATERIAL**

Pursuant to Code of Federal Regulations, Title 10—
Atomic Energy, Part 40—Control of Source Material

**TO: U. S. Atomic Energy Commission,
1901 Constitution Ave. NW.,
Washington 25, D. C.**

2. PREVIOUS AEC LICENSE NUMBER, IF ANY.

C-4971

INSTRUCTIONS

File two (2) copies of this application with the U. S. Atomic Energy Commission, 1901 Constitution Ave. NW., Washington 25, D. C. This application may be used for an original license or for the renewal of a license. In the case of a renewal, this application should be received by the Commission on or before 30 days before the expiration of the previous license. Complete blocks 1, 2, 3, 9, and if you combine two or more of the activities of Producer, Processor, Distributor, Exporter, or Consumer, complete each of the applicable blocks numbered 4 through 8.

1. NAME AND ADDRESS OF APPLICANT
(Street, city, zone, state)

Westinghouse Electric Corporation
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

3. INVENTORY. INVENTORY OF SOURCE MATERIAL, RAW AND REFINED, AS OF

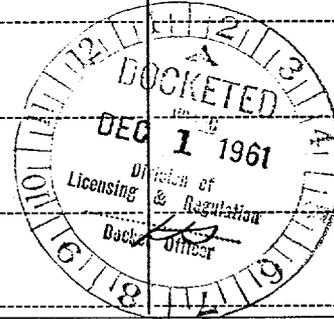
November 28, 1961

(Specify date of last inventory)

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(a) Raw Source Material

DESCRIPTION OF MATERIAL	ESTIMATED PERCENT URANIUM OR THORIUM	QUANTITY IN INVENTORY (Gross tons)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
DNA			



(b) Refined Source Material

DESCRIPTION OF MATERIAL	GRADE (Comm., CP, USP, etc.)	PERCENT OF URANIUM OR THORIUM	QUANTITY (Lb.)	NAME AND ADDRESS OF OWNER, IF DIFFERENT FROM THAT IN BLOCK 1 ABOVE
Uranium Metal (Reject Slugs)	CP	100.0	360	Same as 1 above

File

41

ITEM # 8

4

5. PROCESSORS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO CHEMICALLY PROCESS SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK, AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9.

(a) THE APPLICANT CHEMICALLY PROCESSES SOURCE MATERIAL IN PLANTS LOCATED AT: *(These plants include all of the plants in which the applicant will process source material under the terms of any license issued by the Commission.)*

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4.

(b) IN THE EVENT RESIDUES AND TAILINGS ARE TO BE DISCARDED PLEASE DESCRIBE THESE RESIDUES AND TAILINGS, THE FREQUENCY OF DISCARDS, THE PROBABLE SOURCE MATERIAL CONTENT AND THE REASONS FOR NOT CONSERVING THE MATERIAL:

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DESCRIPTION OF SOURCE MATERIAL TO BE USED	ESTIMATED ANNUAL REQUIREMENTS (Lb.)	USES INDICATE WHETHER (1) AS ANALYTICAL REAGENT, (2) FOR INCANDESCENT MANIFOLD, (3) MEDICINAL OR (4) OTHER. IN THE CASE OF OTHER USES, DESCRIBE THE PRODUCT, THE SOURCE MATERIAL CONTENT, AND THE MANNER IN WHICH THE PRODUCT WILL BE USED.
Uranium Metal	360 #	Material originally purchased for R & D of fuel elements. This work has since been transferred to other corporate facilities. Material presently being retained pending disposition.

8. EXPORTERS. IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO EXPORT SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE BALANCE OF THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 9. *(Note that approval on Form AEC-7 is required for each individual export transaction.)*

Name and address of each of your agents who for your account will prepare Department of Commerce "Shipper's Export Declaration" (Form 7525-V), will request permission to export on Form AEC-7, and will ship source material.

NAME OF AGENT	ADDRESS

9. CERTIFICATION AND AGREEMENT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION AND AGREEMENT ON BEHALF OF THE APPLICANT (1) CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH CODE OF FEDERAL REGULATIONS, TITLE 10—ATOMIC ENERGY, PART 40—CONTROL OF SOURCE MATERIAL; (2) CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF; AND (3) AGREE THAT IN THE EVENT THAT THIS APPLICATION IS APPROVED BY THE ATOMIC ENERGY COMMISSION, AND A LICENSE IS ISSUED, THAT THE DULY AUTHORIZED REPRESENTATIVES OF THE COMMISSION MAY FREELY INSPECT AT ALL REASONABLE TIMES FACILITIES AND RECORDS, TAKE SAMPLES FOR ASSAY, AND DO SUCH OTHER THINGS AS WILL, IN THE OPINION OF THE COMMISSION, ASSURE THAT ALL SOURCE MATERIAL HANDLED BY THE APPLICANT UNDER THE AUTHORITY OF HIS LICENSE, IS PROPERLY ACCOUNTED FOR AND USED.

BY R. D. Rowley / R. D. Rowley
(Signature of applicant)

November 28, 1961

(Date)

Manager

(Title)

Section 35 (A) of the United States Criminal Code, 18 U. S. C. Sec. 80, 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.

(FOR GOVERNMENT USE ONLY)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION
SOURCE MATERIAL LICENSE

LICENSE NO. _____

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	Westinghouse Electric Corporation Materials Manufacturing Department	SUC-509
2. Address	P.O. Box 128 Blairsville, Pennsylvania	4. Expiration Date
	Attention: Mr. R. D. Rowley	December 31, 1964
6. Source Material		5. Docket No.
Uranium Metal (Reject Slugs)		40-3558
	7. Maximum quantity of source material which licensee may possess at any one time under this license	
	Three hundred and sixty (360) pounds	

CONDITIONS

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

For storage purposes only.

CC: Docket Officer
Document Room
S/H
Compl. w/c appl

ITEM # 7

Dictated *1/4/61*

For the U. S. ATOMIC ENERGY COMMISSION

Date of issuance

12/5/61
DEC 5 1961

Donald A. Hunsbaker
Division of Licensing & Regulation

UNITED STATES GOVERNMENT

Memorandum

TO : Eber R. Price, Assistant Director
Division of Licensing and Regulation

DATE: FEB 15 1962

FROM : Leo Dubinski, Assistant Director *LD*
for Materials
Division of Compliance

SUBJECT: WESTINGHOUSE ELECTRIC CORPORATION, BLAIRSVILLE, PENNSYLVANIA;
LICENSE NOS. SNM-37 AND C-4971

CO:RMN

We have attached a copy of a memorandum dated February 13, 1962, from Region I, Division of Compliance, together with a copy of an inspection report dated February 7, 1962, on the subject licensee.

This inspection was requested by Mr. D. A. Nussbaumer by memorandum dated August 14, 1961, (copy attached) in order to determine that all licensed material had been transferred or disposed of in accordance with the regulations and to determine the extent of radioactive contamination, if any, of the premises and equipment.

This inspection, which included License No. C-4971, revealed no items of noncompliance. Since the licensee was not issued a Form 591, we would appreciate it if you would send the licensee a letter acknowledging the fact that no items of noncompliance were noted.

We are forwarding a copy of the inspection report and transmittal memorandum to Mr. Nussbaumer.

Attachments:

1. Cpy memo fm CO:I to CO
dtd 2/13/62, w/insp.rpt.
2. Cpy memo fm L&R to CO
dtd 8/14/61

cc: D. A. Nussbaumer, L&R, w/attach. No. 1
R. W. Kirkman, CO:I, w/o

ITEM # 6

9/18

(5)

Leo Dubinski, Asst. Dir. for Mtls.
Division of Compliance, HQ

FEB 13 1962

Robert W. Kirkman, Director
Region I, Division of Compliance

TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT -
10 CFR 40 - 70

CO:I:PRN

Transmitted herewith is the following clear inspection
report:

WESTINGHOUSE ELECTRIC CORPORATION
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

License No.: C-4971
SNM-37

It should be noted that the inspection of the activities
associated with expired License No. SNM-37 was made as
you requested. The inspection, limited in scope, veri-
fied that all licensed Special Nuclear Material procured
under this license, had been disposed of in accordance
with the regulations and that the extent of radioactive
contamination to the licensee's premises and equipment
was not significant.

Enclosure:
4 cys of Rpt.

INVESTIGATION OF
NATIONAL DEFENSE

05 FEB 13 1962

OFFICE

UNITED STATES ATOMIC ENERGY COMMISSION
MATERIAL STATUS REPORT

FOR SPECIAL NUCLEAR MATERIALS HELD UNDER LICENSE
PREPARE A SEPARATE REPORT FOR EACH LICENSE

1. REPORTING LICENSEE: a. Name <u>Westinghouse Electric Corporation</u> <u>Blairsville Metals Plant, Blairsville, Pa.</u>		c. License No. <u>884-37</u>	d. Period Ending <u>6-30-62</u>	
2. MATERIAL: (Prepare separate report for each material) <u>75% Enriched Uranium</u>		3. WEIGHT UNIT <u>Grams</u>		
4. TOTAL QUANTITY AND ISOTOPE DATA				
5. BEGINNING INVENTORY:		a. ELEMENT	b. ISOTOPE	
6. RECEIPTS:		<u>69,584</u>	<u>46,311</u>	
From		Shipper's License No.		
<u>(W) Electric Corp., Chemock, Pa.</u>		<u>926</u>	<u>668</u>	
<u>(W) Electric Corp., Pittsburgh, Pa.</u>		<u>5</u>	<u>8</u>	
<u>Consolidation Engineering Corp.</u>		<u>2</u>	<u>2</u>	
		<u>933</u>	<u>672</u>	
7. TOTAL RECEIPTS				
8. PRODUCTION				
9. MATERIAL TO BE ACCOUNTED FOR (Total of lines 5, 7, and 8).		<u>50,520</u>	<u>47,183</u>	
10. SHIPMENTS:				
To		Consignee's License No.		
<u>ETHAC, Apollo, Pennsylvania</u>		<u>80,267</u>	<u>18,788</u>	
<u>(W) Electric Corp., Chemock, Pa.</u>		<u>30,353</u>	<u>28,395</u>	
		<u>50,520</u>	<u>47,183</u>	
11. TOTAL SHIPMENTS				
12. PROCESSING LOSSES, DISCARDS, ETC.:				
a. MATERIAL FOR WHICH THE REPORTING LICENSEE IS FINANCIALLY RESPONSIBLE				
b. MATERIAL FOR WHICH THE REPORTING LICENSEE IS NOT FINANCIALLY RESPONSIBLE				
13. BURN-UP		<u>0</u>	<u>0</u>	
14. ENDING INVENTORY				
15. MATERIAL ACCOUNTED FOR (Total of lines 11, 12a, 12b, 13 and 14).		<u>50520</u>	<u>47,183</u>	
16. DETAIL OF ENDING INVENTORY:				
a. MATERIAL ON HAND FOR WHICH REPORTING LICENSEE IS FINANCIALLY RESPONSIBLE TO THE AEC UNDER ABOVE LICENSE.				
b. MATERIAL ON HAND FOR WHICH SOMEONE OTHER THAN REPORTING LICENSEE IS FINANCIALLY RESPONSIBLE TO THE AEC (Detail below)				
Name		License No.		
c. Total of a. and b.				
17. MATERIAL IN POSSESSION OF OTHERS FOR WHICH REPORTING LICENSEE IS FINANCIALLY RESPONSIBLE TO THE AEC UNDER ABOVE LICENSE (Detail below)				
Name		Possessor's License No.		
TOTAL				

EXHIBIT "B"

EXHIBIT C

Schedule of Residue 753 SRS-37

	Date	M, T, W, T, F, S, S	Element	Value
SRS-338-06	4-21-61	M, T, W, T, F	1	19
SRS-338-07	4-27-61	M, T, W, T, F	21	570
SRS-338-08	5-22-61	M, T, W, T, F	612	268
SRS-338-09	5-23-61	M, T, W, T, F	289	164
			926	

SRS-38-02	2-15-61	M, T, W, T, F	6	8
63 station #03	6-2-61	M, T, W, T, F	2	2

Schedule of Residue 753 SRS-37

SRS-115-02	4-20-61	M, T, W, T, F	6200	5776
SRS-115-03	4-20-61	"	658	6068
SRS-115-04	4-20-61	"	276	439
SRS-115-05	4-28-61	"	2026	1207
SRS-115-06	4-20-61	"	1185	1386
SRS-115-07	4-23-61	"	1116	1001
SRS-115-08	4-20-61	"	336	313
SRS-115-09	4-20-61	"	30	28
SRS-115-10	4-20-61	"	28	24
			30167	10780

SRS-338-36	1-9-61		2672	2489
SRS-338-37	1-12-61		1357	1264
SRS-338-38	1-23-61		66	60
SRS-338-39	1-30-61		6195	3509
SRS-338-40	1-30-61		539	501
SRS-338-41	2-6-61		902	840
SRS-338-42	5-25-61		901	639
SRS-338-43	6-5-61		25	22
SRS-338-44	5-26-61		18667	17380
SRS-338-45	6-10-61		2	2
SRS-338-47	6-30-61		1007	1058
			30393	20332
			941	824
			31452	23556

MEMPHIS, TENN. COMM. DIST. DIVISION, D. C. 300
 MEMPHIS, TENN. COMM. DIST. DIVISION, D. C. 300

40-3558
70-26

MAR 28 1962

Westinghouse Electric Corporation
Materials Manufacturing Department
P. O. Box 128
Blairsville, Pennsylvania

Attention: Mr. R. D. Rowley

Gentlemen:

This refers to the inspection conducted on October 18, 1961, of your activities authorized under AEC Source Material License No. C-4971 and Special Nuclear Material License No. SNM-37.

No items of noncompliance have been noted as a result of this inspection.

We appreciate the cooperation given the AEC representative.

Very truly yours,

Eber R. Price
Assistant Director
Division of Licensing
and Regulation

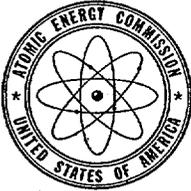
bcc: Compliance Division, HQ
Compliance Division, I
Public Document Room

SIGNED CONCURRENCE COPY IN DOCKET 40-3558

F119

OFFICE ▶	LR:EB CGW:lrn:REC	<i>LR Price</i> 3/27			
SURNAME ▶	<i>LR</i>				
DATE ▶	3-26-62				

ITEM # 5



UNITED STATES
 ATOMIC ENERGY COMMISSION
 WASHINGTON, D.C. 20545

IN REPLY REFER TO:

40-3558

Westinghouse Electric Corporation
 Materials Manufacturing Department
 P. O. Box 128
 Blairsville, Pennsylvania

NOV 19 1964

Attention: Mr. R. D. Rowley

SUBJECT: NOTICE OF LICENSE EXPIRATION

Gentlemen:

Notice is given that Source Material License Number SUC-509 expires on **December 31, 1964.**

If you desire to continue your program using source material(s), an application for renewal of the license should be filed with this office. It is to your advantage to file such an application at least thirty (30) days before the expiration date of your existing license. The application should be submitted using Form AEC-2, enclosed, in accordance with the instructions provided with the form. Your program will then be covered by your existing license until action is taken on your application for license renewal. (Title 10, Code of Federal Regulations, Part 40, Section 40.43(b)). If an application is received less than 30 days prior to the expiration date of your license and cannot be processed before your existing license expires, this could result in your possessing source material without a valid license.

If you do not wish to renew your license, please complete the enclosed form "Certification of Status of Source Material Activities under United States Atomic Energy Commission Source Material License Number SUC-509", and return it to this office.

If you have obtained an amendment which has extended the expiration date of the above license or if a new license has been issued which supersedes the above license, please disregard this notice.

This notice of your license expiration is sent for your convenience and it should not be interpreted that similar notices will be sent in the future. The responsibility for timely submission of an application for license renewal remains with the licensee.

cc: Document Room

Compliance

Supplementary ←

Very truly yours,

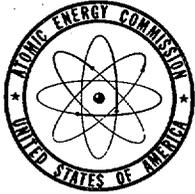
Dictator D. 11/19/64

Approved RPR

Donald A. Nussbaumer, Chief
 Source & Special Nuclear Materials Branch
 Division of Materials Licensing

Enclosures:
 10 CFR, 20 & 40
 Form AEC-2
 "Certification. . ."

ITEM # 4 F/20



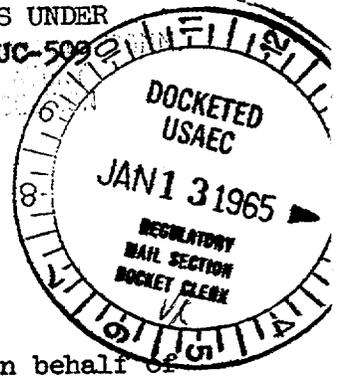
UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

RECEIVED

1965 JAN 13 10 16

IN REPLY REFER TO:
40-3558

CERTIFICATION OF STATUS OF SOURCE MATERIAL ACTIVITIES UNDER
UNITED STATES ATOMIC ENERGY COMMISSION LICENSE NO. SUC-509



LICENSEE: Westinghouse Electric Corporation
ADDRESS: Materials Manufacturing Division
P.O. Box 128
Blairsville, Pa.

The licensee and any individual executing this certification on behalf of the licensee certify that (check appropriate item(s) below):

No source materials have been procured and/or possessed by licensee.
All source materials procured and/or possessed by licensee under source material license No. SUC-509

(1) have been or will be, prior to expiration of the above license, transferred to Westinghouse Atomic Fuel Dept. - Cheswick, Pa.
(Institution, firm, hospital, person, etc.)

_____ which has source material license No. SMB-152

(2) have been or will be disposed of in compliance with 10 CFR 20 prior to expiration of this license.

(3) will be possessed under the general license of Section 40.22, 10 CFR 40.

(4) Other _____

P. E. Dupler / *P E Dupler*
Certifying Official

Security Officer
Date: January 11, 1965

Please return three copies to:
U. S. Atomic Energy Commission
Division of Materials Licensing
Washington 25, D. C.

ACKNOWLEDGED

ITEM # 3

F/21
133

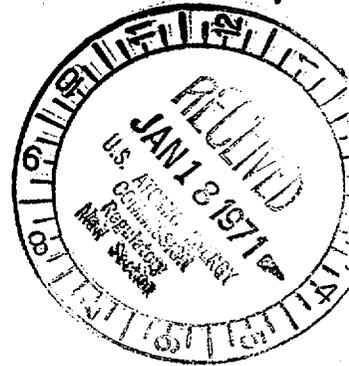


Handwritten notes:
L
C. Crocker
4/3/11
W. H. ...

Westinghouse Building
Gateway Center
Pittsburgh Pennsylvania 15222

January 15, 1971

Handwritten initials: HF



Westinghouse Electric Corporation

U. S. Atomic Energy Commission
Division of Materials Licensing
Washington, D. C. 20545

Attention: Mr. Donald A. Nussbaumer, Chief
Fuel Fabrication and Transportation Branch

Gentlemen:

For Div of Compliance

Subject: Application for an Amendment to
License SNM-338, Docket 70-337

The Westinghouse Electric Corporation hereby requests an amendment to the subject license to authorize the receipt, possession, use and transfer of special nuclear material for the fabrication of fuel assemblies as listed below.

1. 17,000 kilograms of uranium oxide at a nominal enrichment of 3.2 w/o for a replacement region for the NOK I nuclear power reactor.
2. 60,000 kilograms of uranium oxide at a nominal enrichment of 2.6 w/o for the Turkey Point #4 nuclear power reactor
3. 120,000 kilograms of uranium oxide at nominal enrichments of 2.3, 2.8 and 3.3 w/o for the Zion #1 nuclear power reactor.

In all instances, the processes and nuclear criticality safety limits specified in our Indian Point #2 application, dated August 4, 1967, will apply. When the enrichment to be processed differs from that specified in the Indian Point #2 application, the nuclear criticality safety limits in that application that are applicable to the next higher enrichment will be used.

Please send the amendment to me at the above address.

If you have any questions, please write to me at the above address or telephone me collect, (412) 255-3907.

Very truly yours,

Karl R. Schendel

Karl R. Schendel
License Administrator

KRS:sw

7 copies transmitted

Handwritten: F/22

ITEM # 31

TWX INCOMING

Bookkeeper
D. J. [unclear]
6/29 [unclear]

FROM

WESTINGHOUSE NUCLEAR ENERGY SYSTEMS
PITTSBURGH, PENNA.

TEL NO 710 797 3688

1971 JUN 8 AM 9 22

6-7-71

1967

U.S. ATOMIC ENERGY COMMISSION
TWX UNIT

hpl



TO

U S ATOMIC ENERGY COMMISSION
DEPARTMENT OF MATERIAL LICENSING
WASH D C

ATTN MR DONALD MUSBANDER

DOCKET NO. **70-337**
for file of compliance

THE WESTINGHOUSE ELECTRIC CORPORATION REQUEST AN AMENDMENT TO LICENSE SNW-338, DOCKET 70-337, TO AUTHORIZE THE RECEIPT, POSSESSION, USE AND TRANSFER OF UP TO 2400 KG OF URANIUM-235 CONTAINED IN LOW ENRICHED URANIUM OXIDE FOR THE FABRICATION OF FUEL ASSEMBLIES AS LISTED BELOW.

1. 800 KG OF 235U CONTAINED IN 22,500 KG OF URANIUM OXIDE AT A NOMINAL ENRICHMENT OF 4.0 W/O FOR A REPLACEMENT REGION FOR THE SAHONOPRE NUCLEAR POWER REACTOR.
2. 285 KG OF 235U CONTAINED IN 7500 KG OF URANIUM OXIDE AT A NOMINAL ENRICHMENT OF 4.36 W/O FOR REPLACEMENT FUEL FOR THE INDIAN POINT NA NUCLEAR POWER REACTOR.
3. 475 KG OF 235U CONTAINED IN 29,000 KG OF URANIUM OXIDE AT A NOMINAL ENRICHMENT OF 1.85 W/O FOR THE TURKEY POINT NA NUCLEAR POWER REACTOR.
4. 800 KG OF 235U CONTAINED IN 40,000 KG OF URANIUM OXIDE AT A NOMINAL ENRICHMENT OF 2.27 W/O, TO BE DIVIDED EQUALLY AND USED FOR THE PRAIRIE ISLAND NA AND THE KEWAUNEE NUCLEAR POWER REACTORS.

2652

7/23

5. ~~150~~ KG OF ^{235U} CONTAINED IN ~~150~~ KG OF URANIUM OXIDE AT NOMINAL ENRICHMENTS OF 2.80 W/O AND 3.30 W/O FOR REPLACEMENT FUEL FOR THE INDIAN POINT ~~1~~ NUCLEAR POWER REACTOR.

6. ~~150~~ KG OF PLUTONIUM AS CLAD FUEL RODS, CONTAINING NOT MORE THAN 4 W/O PLUTONIUM IN MIXED OXIDES, FOR FUEL ASSEMBLIES TO BE SUPPLIED FOR THE KIKAWA ~~1~~ NUCLEAR POWER REACTOR.

FOR ITEMS 1 AND 2, THE PROCESSES AND NUCLEAR CRITICALITY SAFETY LIMITS SPECIFIED IN OUR YANKEE REGIONS V AND VI APPLICATION, DATED OCTOBER 14, 1964, WILL APPLY.

FOR ITEMS 3, 4 AND 5 THE PROCESSES AND NUCLEAR CRITICALITY SAFETY LIMITS SPECIFIED IN OUR INDIAN POINT ~~2~~ APPLICATION, DATED AUGUST 4, 1967, WILL APPLY. WHEN THE ENRICHMENT TO BE PROCESSED DIFFERS FROM THAT SPECIFIED IN THE INDIAN POINT ~~2~~ APPLICATION, THE NUCLEAR CRITICALITY SAFETY LIMITS IN THAT APPLICATION THAT ARE APPLICABLE TO THE NEXT HIGHER ENRICHMENT WILL BE USED.

FOR ITEM 6, FUEL ROD POSSESSION AND USE WILL BE CONTROLLED USING THE KEFF FOR 4 W/O PLUTONIUM GIVEN IN FIGURE 2.3.2.8 OF OUR APPLICATION FOR A BROAD LICENSE, DOCKET 70-337, DATED DECEMBER 16, 1969, AS REVISED ON JUNE 17, 1970. A COMPLETED FUEL ASSEMBLY WILL HAVE KEFF LESS THAN OR EQUAL TO 0.95, ASSUMING MAXIMUM MODERATION AND REFLECTION BY LIGHT WATER.

IF YOU HAVE ANY QUESTIONS, PLEASE TELEPHONE ME AT ~~412~~ 373-4652.

KARL R. SCHENDEL, LICENSE ADMINISTRATOR
WNES NUCLEAR CENTER

END

2653

F/23

②

ITEM # 30

REPLACEMENT OF 3.6 W/O FOR A REPLACEMENT REGION FOR THE ZORITA NUCLEAR

2. 110 KG OF 235U CONTAINED IN 3800 KG OF URANIUM AT A NOMINAL

5085

POWER REACTOR.

ENRICHMENT OF 3.6 W/O FOR A REPLACEMENT REGION FOR THE ZORITA NUCLEAR

1. 263 KG OF 235U CONTAINED IN 7,300 KG OF URANIUM AT A NOMINAL

AS LISTED BELOW.

ENRICHED URANIUM OXIDE FOR THE FABRICATION OF FUEL ASSEMBLIES

USE AND TRANSFER OF UP TO 1775 KG OF URANIUM-235 CONTAINED IN LOW

LICENSE GNM-338, DOCKET 70-337, TO AUTHORIZE THE RECEIPT, POSSESSION

THE WESTINGHOUSE ELECTRIC CORPORATION REQUESTS AN AMENDMENT TO

ATTN: MR DONALD NUSSBAUMER

WASH D C

DEPARTMENT OF MATERIAL LICENSING

US ATOMIC ENERGY COMMISSION

TO

11-19-71

TRN NO 710 797 3658

HONOLULU, PENNA.

WESTINGHOUSE NUCLEAR ENERGY SYSTEMS

FROM



U.S. ATOMIC ENERGY COMMISSION REGULATORY DIVISION MAIL SECTION

1971 NOV 19 PM 5 56

TWX INCOMING

ITEM #

89

DOCKET NO. 70-337

U.S. ATOMIC ENERGY COMMISSION REGULATORY DIVISION COMPLIANCE

Handwritten notes: 11/24, 11/29

FILING INSTRUCTIONS

The transmittal letter should be filed in the binder labelled, "Nuclear Fuel Division, Plutonium Fuels Development Laboratory, Materials License SNM-1120, Docket 70-1143," immediately in front of our last previous transmittal, dated December 9, 1971.

Revised pages 9 and 32 should be inserted and the old pages removed.

New page 31.1 should be inserted immediately following existing page 31.

The removed pages may be filed in the back of the binder.

Revision No. 9

4/13/72

ITEM # 28

F/25
D/28
(11)

REVISION RECORD (continued)

<u>Revision No.</u>	<u>Date of Revision</u>	<u>Pages Revised</u>	<u>Revision Reason</u>
8	12/9/71	43,46	Revised to show Storage Addition.
8	12/9/71	58.4	"... an opening equal to Item 8...." was "a 12" opening..."
8	12/9/71	58.5	".... an opening height 12." was "a maximum 12." ".... capped containers." was ".... screw-capped volumetric flasks."
8	12/9/71	63,68	Items 1 thru 4, added "& Pu equiv. of 235U.
8	12/9/71	72	Deleted reference to Table 9.1.1
8	12/9/71	73,75	Deleted
8	12/9/71	76	Revised to show deletion of Table 9.1.1
8	12/9/71	79	Revised to show current equipment arrangement (FIO)
8	12/9/71	83	Revised to clarify venting requirement applies to nitrate shipment, only; reduced period between venting to thirty days.
8	12/9/71	95	Deleted reference to Table 9.1.2 Clarified resin handling.
8	12/9/71	100	Deleted
8	12/9/71	101	Revised to show deletion of Table 9.1.2.
9	4/13/72	31.1	Inserted to add Para. 5.2.9.
9	4/13/72	32	Retyped

5.2.8 (continued)

who are available as consultants on matters of health and safety are given in Sections 2.2 and 2.3 of the Health Physics Manual. (See Section 6.1 of the application.

5.2.9 Site Manager

The Site Manager for the Cheswick site will be the General Manager of the Electro-Mechanical Division (EMD). Under this license, he will be responsible to provide a competent staff group to perform radiation protection, industrial hygiene, and safety functions for all activities at Cheswick on a site-wide basis. In addition, he will assure resolution of any matters relating to all health, safety and compliance that are not settled directly among the cognizant line managers. He will fulfill other site functions as determined by Westinghouse corporate management.

The Site Manager, as the general manager of an operating division, is a member of corporate senior management. Selection and appointment is the responsibility of Westinghouse Corporate Headquarters officers.

This position is currently filled by Mr. E. J. Cattabiani whose resume follows:

E. J. Cattabiani
B.S.M.E., Pratt Institute of Technology - Mech. Engrg.

Mr. Cattabiani joined the Bettis Atomic Power Laboratory

in 1961, he joined the

5.2.9 (continued)

group that founded the Electro-Mechanical Division, where he worked on the design and development of canned motor pumps, including contributions in the area of heat transfer, mechanical design, and stress analysis. Mr. Cattabiani progressed through a number of management positions at EMD, and was appointed to his present position in 1969. As General Manager of EMD, Mr. Cattabiani is responsible for all phases of the operation of the division, including those activities such as security, industrial hygiene and safety, work engineering, etc., which are provided to other Westinghouse facilities at the Cheswick Site.

5.3 Administrative Procedures

The Plutonium Fuels Development Laboratory will be operated in accordance with the general operating philosophy which is employed in Westinghouse plants and facilities. Briefly, the philosophy may be stated as follows: Responsibility for all phases of operations, including safety and health protection follows the usual lines of organizational authority. Advisory and service groups are provided to assist line management in the analysis of operations within their control and to provide measurements, determinations and information which aid in the analysis of specific operations and situations. Such a service and staff function in no way relieves the individual line supervisor of responsibility for the operation of his function and facility and for ascertaining and assuring, through appropriate management channels, that adequate service is provided. Basic policies and procedures are established by line management with the approval of cognizant staff groups;

He has a basic responsibility to operate his facility in

REVISION RECORD

<u>Revision No.</u>	<u>Date of Revision</u>	<u>Pages Revised</u>	<u>Revision Reason</u>
1	12/9/71	All	Revised in its entirety to limit SNM to storage only, and to provide for source material use
2	4/13/72	11	Changed "special nuclear material" to read "licensed material".
2	4/13/72	12	"Minimum" ²⁴⁰ Pu was "Maximum"
2	4/13/72	32	Added weighing restriction on Scale Bench Area.
2	4/13/72	35-37	Revised Table 8.2.1.1 to delete listing of MPV's not appearing elsewhere in application and to revise <u>Notes</u> : to suit.

1. General

1.1 Corporate Information

The Westinghouse Electric Corporation hereby requests authorization to receive, possess, store, use and transfer licensed material in Building No. 7 (Bldg. 7) at the Cheswick site.

Applicant: Westinghouse Electric Corporation
Westinghouse Building
Gateway Center
Pittsburgh, Pennsylvania 15222

Geographical location where these materials will be used: Westinghouse Electric Corporation
Plutonium Fuels Development
Laboratory, NFD
Box 217
Cheswick, Pennsylvania 15024

Complete corporate information, fulfilling the requirements of Subparagraph 70.22(a)(1), has been supplied in separate transmittal, dated April 28, 1971 addressed to Mr. L. E. Johnson, Acting Director, Division of Materials Licensing, and Dr. P. A. Morris, Director, Division of Reactor Licensing.

1.2 Correspondence

The license amendment and any associated correspondence should be sent to Karl R. Schendel, Westinghouse Electric Corporation, Nuclear Energy Systems, P. O. Box 355 .
Pittsburgh, Pennsylvania 15230.

2. Material Requirements

Listed below are maximum quantities of materials which will be possessed by the Plutonium Fuels Development Laboratory (PFDL) in Bldg. 7 at any one time:

<u>Material</u>	<u>Form</u>	<u>Quantity</u>
Unirradiated contained ^{235}U	Any chemical or physical form at any enrichment up to fully enriched	6 kilograms
Plutonium	Encapsulated components Maximum ^{238}Pu content $\leq 2.0\%$ & Minimum ^{240}Pu $\geq 5.0\%$	15 kilograms
Natural or de-pleted uranium	Any chemical or physical form	12,000 kilograms
Thorium	Any chemical or physical form	500 pounds

Material will be procured in accordance with program requirements. No production, consumption or significant loss of special nuclear material is anticipated.

3. Nuclear Materials Management Procedures

Nuclear materials management procedures which comply with fundamental material controls approved by the Division of Nuclear Materials Safeguards, USAEC, will be followed.

4. Activity and Site Descriptions

4.1 General Activities

The activities described in this application will be subject to the PFDL management described in our application dated June 11, 1969, as revised. The special nuclear materials specified in Section 2 will be possessed, stored and transferred but not processed or used. SNM will be possessed in Bldg. 7 only for facility.

Table 8.1.2.1

Description of Uranium Bearing Material Within Secured Storage Area

Area	Normal Configuration	Maximum ²³⁵ U Enrichment and Form	Maximum Permissible Value
A4*	Columns of 3.5" (max.) diameter cylinders spaced 24" center-to-center	~ 93 w/o Pellets, Powders, Solutions	3.5" Diameter
B7*	Columns of 3.5" (max.) diameter cylinders isolated from one another by at least 8 inches of concrete ($\geq 140 \text{ lbs/ft}^3$)	~ 93 w/o Pellets, Powders, Solutions	3.5" Diameter
C6*	Columns of 5.5" (max.) diameter cylinders isolated from one another by at least 8 inches of concrete ($\geq 140 \text{ lbs/ft}^3$)	≤ 30 w/o Powders Solutions	5.5" Diameter
D6*	Columns of 9.6" (max.) diameter cylinders isolated from one another by at least 8 inches of concrete ($\geq 140 \text{ lbs/ft}^3$)	≤ 4.5 w/o Powders, Solutions	9.6" Diameter
E5	Trays - 9" x 11-1/4" x 2" deep - per shelf	≤ 30 w/o Powder	2.5" Thick
E5	Corrugated pellet trays - 15" x 23" x 1-1/2" deep - per shelf	≤ 30 w/o Pellets, Powder	1.5" Thick
E5	Corrugated pellet trays - 12-1/2" x 18" x 2-1/4" deep - per shelf	≤ 4.5 w/o Pellets, Powder	3.8" Thick
Bench	Any one of the containers described above (A ₁ thru E ₁). Weighing will involve only gross container weights for SNM.	Any of the uranium materials described above (A ₁ thru E ₁)	No more than one unit present (may employ either geometry or mass limit)

Material normally stored in A or B area may be stored in C or D areas provided the geometry control (3.5" cylinder diameter) is not exceeded; similarly, material normally stored in the C area may be stored in the D area, provided the geometry control (5.5" cylinder diameter) is not exceeded. Enrichment ranges and hence, geometric limits will not be mixed within a given area.

Table 8.2.1.1

Maximum Permissible Value References

<u>Enrichment</u>	<u>Parameter</u>	<u>MPV</u> ^{/1}	<u>Source</u>	<u>Page</u>
U 93 w/o	Mass	350 grams	TID-7016	10
	Cylinder Diameter (UO ₂)	3.5 inches	LEOPARD ^{/2}	
U ≤ 30 w/o	Mass	440 grams	K-1019	22
	Cylinder Diameter ^{/3}	5.5 inches	TID-7028	29
	Slab Thickness (Hetero)	1.5 inches	TID-7028	30
	Slab Thickness (Homo.)	2.5 inches	TID-7028	30
U ≤ 4.5 w/o	Cylinder Diameter ^{/4}	9.6 inches	LEOPARD ^{/2}	
	Slab Thickness	3.8 inches	LEOPARD ^{/2}	
Pu Any	Mass	220 grams	TID-7016	10
	Shipping package	Applicable License Amendment		

NOTES:

/1 MPV equals recommended value given in the reference. If the reference lists a minimum critical value, the MPV equals the minimum critical value reduced by an appropriate safety factor. Normally, the safety factor will be that used to determine the recommended value in TID-7016 for the corresponding parameter.

/2 See reference at bottom of page 33 of this application. The values listed are those determined for full density UO₂ or PuO₂ compacts. The ultraconservative solid SNM metal values are not applicable in this situation.

Table 8.2.1.1 (continued)

3 The cylinder diameter given is for homogeneous material enriched ≤ 30 w/o only. Heterogeneous uranium enriched >4.5 w/o but ≤ 30 w/o will be stored using the 3.5 inch diameter especially determined to be safe for fully enriched uranium when nuclear safety is based on a safe cylinder diameter.

4 The cylinder diameter given is for homogeneous material enriched up to 4.5 w/o only. Heterogeneous uranium enriched up to 4.5 w/o will be stored using the 5.5 inch diameter especially determined to be safe for uranium enriched ≤ 30 w/o when nuclear safety is based on a safe cylinder diameter. The 5.5 inch diameter is conservatively less than the 8.5 inch diameter determined by LEOPARD procedures to be nuclearly safe for heterogeneous uranium enriched ≤ 4.5 w/o.

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IFeb78
(ACCESS NO)
(FORMAT) 02
(UPDATE)
(CHKD BY)
ITEM #

(ORGANIZ) Westinghouse Electric Corp.
 (ADRES A) PO 128 (CITY A) Blairsville (ZIP A) _____ (STATE A) _____
 (ADRES B) _____ (CITY B) Cheswick (ZIP B) _____ (STATE B) _____
 (ADRES C) _____ (CITY C) _____ (ZIP C) _____ (STATE C) _____
 (ADRES D) _____ (CITY D) _____ (ZIP D) _____ (STATE D) _____
 (SITES) _____ (LANDS) _____ (BLDGS) _____

(LIC NO A) SWC 00509 (EFFDATA) _____ (EXPIRA) 12/31/64 (CROSRFA) 00
 (ISOTOP 1) U (QUANTY 1) 360 lbs (FORM 1) _____ SE1 UN1 S1 L1 G1 O1 reject
 (ISOTOP 2) _____ (QUANTY 2) _____ (FORM 2) _____ SE2 UN2 S2 L2 G2 O2
 (ISOTOP 3) _____ (QUANTY 3) _____ (FORM 3) _____ SE3 UN3 S3 L3 G3 O3
 (ISOTOP 4) _____ (QUANTY 4) _____ (FORM 4) _____ SE4 UN4 S4 L4 G4 O4
 (ISOTOP 5) _____ (QUANTY 5) _____ (FORM 5) _____ SE5 UN5 S5 L5 G5 O5
 (ISOTOP 6) _____ (QUANTY 6) _____ (FORM 6) _____ SE6 UN6 S6 L6 G6 O6
 (OPERTN 1) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 2) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 3) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 4) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 5) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 6) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (COMENT A) _____

(LIC NO B) C 004971 (EFFDATB) _____ (EXPIRB) 12/31/61 (CROSRFB) C 003640
 (ISOTOP 7) SM (QUANTY 7) 3500 lbs (FORM 7) _____ SE7 UN7 S7 L7 G7 O7
 (ISOTOP 8) _____ (QUANTY 8) _____ (FORM 8) _____ SE8 UN8 S8 L8 G8 O8
 (ISOTOP 9) _____ (QUANTY 9) _____ (FORM 9) _____ SE9 UN9 S9 L9 G9 O9
 (ISOTOP10) _____ (QUANTY10) _____ (FORM10) _____ SE10 UN10 S10 L10 G10 O10
 (ISOTOP11) _____ (QUANTY11) _____ (FORM11) _____ SE11 UN11 S11 L11 G11 O11
 (OPERTN 7) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 8) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN 9) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN10) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN11) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (COMENT B) for SNM-37 fabrication of fuel elements

(LIC NO C) C 004415 (EFFDATC) _____ (EXPIRC) _____ (CROSRFC) 00
 (ISOTOP12) _____ (QUANTY12) _____ (FORM12) _____ SE12 UN12 S12 L12 G12 O12
 (ISOTOP13) _____ (QUANTY13) _____ (FORM13) _____ SE13 UN13 S13 L13 G13 O13
 (ISOTOP14) _____ (QUANTY14) _____ (FORM14) _____ SE14 UN14 S14 L14 G14 O14
 (OPERTN12) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN13) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN14) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (COMENT C) _____

(LIC NO D) SNM 000338 (EFFDATD) _____ (EXPIRD) _____ (CROSRFD) 00
 (ISOTOP15) _____ (QUANTY15) _____ (FORM15) _____ SE15 UN15 S15 L15 G15 O15
 (ISOTOP16) _____ (QUANTY16) _____ (FORM16) _____ SE16 UN16 S16 L16 G16 O16
 (OPERTN15) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (OPERTN16) _____ Mfg Pro Min Mil Reac R&D Anl Hosp Ed Ex Im
 (COMENT D) _____

(LIC NO E) SNM 000037 (EFFDATE) _____ (EXPIRE) 07/01/61 (CROSRFE) 00
 (LIC NO F) SNM 000144 (EFFDATEF) _____ (EXPIRF) _____ (CROSRFF) 00

(SITE DOC) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

(CLEARED) Y N U Licensee Consultant AEC NRC ORNL Other
 (COMENT 1) _____

(CATEGORY) 1 (>66) 1a(OK) 1b(No) 1c(Und) ; 2 (<65) 2a(OK) 2b(No) 2c

ANALYSIS FORM

DOC NO 40 00 3558

Category _____ By _____ Date FEB 07 1978

ACCES NO _____ Category _____ By _____ Date _____

Category _____ By _____ Date _____

DOCUMENTS FOUND IN FOLDER: (Check nos. on reverse side under (SITE DOC) which apply.)

No. Document(s)

- 01 Appl. for Lic. _____
- 02 Copy of Lic. _____
- 03 _____ Lic. Amendment(s) _____
- 04 _____ Reporting ID Symbol(s): _____
- 05 _____ Correspondence: _____
- 06 Material Transfer Forms: AEC SF 101-WFP-CYT-48 : 27 drums to Oak Ridge
- 07 _____ Material Lease Form(s): _____
- 08 _____ Nuclear Material Draft: _____
- 09 _____ Materials Data Input: _____
- 10 _____ Waste Disposal: _____
- 11 _____ On-Site Waste Burial: _____
- 12 _____ Off-Site Waste Burial: _____
- 13 _____ Form 741 or 742: _____
- 14 _____ Quantities on Site: <1 gm <1 kg <10 kg <100 kg <1000 kg >1000 kg of:
- 15 _____ License Nos. NOT terminated: _____ AS OF: _____
- 16 Compliance Inspect Rept: OK
- 17 _____ Inspect Findings: _____
- 18 Status Certificate: SUC-509 have been or will be transferred to Westinghouse Atomic Fuel Plant
- 19 _____ Contract No: _____ Cheswick
- 20 _____ Environmental Impact: _____
- 21 _____ Radiation Safety Check Form: _____
- 22 _____ Site Shut Down: _____
- 23 Material Status Rept: 46,311 gms U-235 on 6/30/61; 0 gms U-235 as Exhibit C
- 24 _____
- 25 _____

NOTES: _____

No. Check List

- 26 One or more licenses expired AFTER 1965 (Category 1): _____
- 27 ALL licenses terminated BEFORE 1966 (Category 2): _____
- 28 _____ Company Name changed: _____
- 29 _____ Company went out of business: _____
- 30 _____ Site not under responsible control: _____
- 31 _____ License covered more than one facility (site): _____
- 32 _____ Intra-Company Transfers: _____
- 33 _____ Radioactive material properly disposed of: _____
- 34 _____ Radioactive material improperly disposed of: _____
- 35 _____ Loaned or leased material returned: _____
- 36 _____ On-Site disposal: _____
- 37 _____ Off-site disposal to licensed group: _____
- 38 _____ Material never received under license: _____
- 39 _____ Incomplete accounting of materials: _____
- 40 _____ Site probably contaminated: _____
- 41 _____ Radiation survey rept(s): _____
- 42 _____ Radiation levels: _____
- 43 _____ 10CFR citations: _____
- 44 _____ Transferred to State Licensing as of: _____
- 45 _____
- 46 _____
- 47 _____

NOTES: _____

EXPERT SYSTEM LICENSE EVALUATION
REPORT FOR LICENSE C-04971

NAME OF LICENSEE: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU. DEPT.
LISTED SITE: LICENSEE'S MATERIALS MANUFACTURING DEPT. AT BLAIRSVILLE, PA.
--- TYPE OF ACTIVITY OR FACILITY: LABORATORY/RESEARCH

DESCRIPTION OF FIRST SITE AT WHICH C-04971 WAS USED
LICENSEE'S MATERIALS MANUFACTURING DEPARTMENT AT BLAIRSVILLE, PA.
THE OPERATIONS OF SNM-37 WERE ALSO AT THIS SITE, BUT THERE IS NO
INFORMATION ON THE ACTUAL AREAS OF THE FACILITY IN USE FOR C-4971.

Description of LICENSEE ACTIVITY UNDER THIS LICENSE

USE IN A RESEARCH AND DEVELOPMENT PROGRAM TO PRODUCE ALLOYS FOR USE
IN FUEL ELEMENT FABRICATION. THERE IS NO INFORMATION ON THE ACTUAL
OPERATIONS IN THIS FILE.

The final score for SITE CONTAMINATION is: 11

----- MATERIALS INFORMATION FOR THIS LICENSE -----
--Information on type and form of materials--
Material-- --Form--

SOURCE MATERIAL-N.O. Loose material

For evaluation purposes, amounts of the following materials were obtained

---Material---	--Form--	Amount	Unit	Score
SOURCE MATERIAL-N.O.S.	LOOSE	3500.00	LB	9.4

INITIAL SITE SCORE, based on LOOSE material possession limits: 9

FINAL DECISION FOR LOOSE MATERIALS:
MODERATE PRIORITY FOR REVIEW

The final SCORE for SITE CONTAMINATION is: 11

SEQUENCE OF RECORDED REASONING

1. There was one identifiable site with this license.
2. FIRST SITE: There was insufficient information in file to determine the likelihood of release to atmosphere or to environment from activities at this site.
3. FIRST SITE: Some likelihood that building onsite could have been left with contamination. Score=score*1.0
4. FIRST SITE: There was NO verifiable decontamination of the site at closeout. Score=score*1.2
5. FIRST SITE: There is evidence in the file indicating that turnover of the materials under this license was not frequent. This

ITEM # 2

(10) F/27

may be due to issuance of the license using limits applicable to a year or to the entire period of the license. Score=score*.8

6. FIRST SITE: Based on previous answers, the license as used at site is a candidate to use protective clothing, glove boxes, hoods, or a hot cell. The reviewer found no evidence that any of the above were used at this site.
7. FIRST SITE: There was possible or limited generation of contaminated material from machinery used in the operation. Score=score*1.2.
8. FIRST SITE: Possible inappropriate disposal or abandonment of contaminated material from machinery (cloths, parts, etc). Score=score*1.1
9. FIRST SITE: There was some documentation of materials disposition, but not complete. Score=score*0.9
10. FIRST SITE: Because the score for this site is below 20 at this point, a closeout survey would not necessarily have been warranted.
11. FIRST SITE: There was no closeout survey for this site. The score will not be altered, since the current score for this site is below 20
12. FIRST SITE: There was NOT an NRC FINAL INSPECTION of the facility. Score not changed.

COMMENTS FOR LICENSE EVALUATION

Description of LICENSEE ACTIVITY UNDER THIS LICENSE

USE IN A RESEARCH AND DEVELOPMENT PROGRAM TO PRODUCE ALLOYS FOR USE IN FUEL ELEMENT FABRICATION. THERE IS NO INFORMATION ON THE ACTUAL OPERATIONS IN THIS FILE.

Reviewer's comments concerning potential TURNOVER OF MATERIALS ALTHOUGH THE LICENSEE DID REQUEST 3500 LBS. OF MATERIAL (APPLICATION OF 11-11-58) FOR THE PRECEEDING LICENSE C-4415, LATER APPLICATIONS DID NOT ASK FOR THIS MUCH MATERIAL. THE INSPECTION OF 10-18-61 REPORTS THAT THE INITIAL AND ONLY SHIPMENT OF URANIUM AT 998.1 LBS. WAS RECEIVED IN 1957 FROM NATIONAL LEAD.

Reviewer's comments concerning potential CONTAMINATION ALTHOUGH THE FILE IS LACKING INFORMATION ON THE ACTUAL OPERATIONS FOR THE PROGRAM, THEY DID WORK WITH LOOSE MATERIAL WHICH HAS SOME POTENTIAL TO CONTAMINATE A FACILITY. THERE IS NO EVIDENCE OF A HEALTH PHYSICS PROGRAM BEING IN EFFECT.

--- continued on next page ---

- GENERAL COMMENTS ENTERED BY THE REVIEWER CONCERNING THE EVALUATION -
-- LICENSE C-04971 WAS ISSUED ON 1-4-60 TO COVER A PROGRAM WHICH HAD
-- BEEN CONDUCTED UNDER 2 PREVIOUS LICENSES(C-4415 ISSUED ON 11-12-58 TO
-- EXPIRE ON 11-30-59 AND C-3640 ISSUED ON 1-8-57 TO EXPIRE ON 2-1-58)AT
-- WESTINGHOUSE'S BLAIRSVILLE, PA. FACILITY. THE INSPECTION OF
-- 10-18-61(FOR THE CLOSEOUT OF SNM-37 AND A BRIEF EXAMINATION OF THE
-- ACTIVITIES CONDUCTED UNDER C-04971)REPORTS THAT USE OF THE MATERIAL
-- STOPPED IN DEC., 60, AND ONLY 364.5 LBS. OF URANIUM WAS IN STORAGE AT
-- THE FACILITY. IT APPEARS THAT SUC-509 WAS LATER ISSUED TO COVER THE
-- STORAGE OF THIS MATERIAL. THE ONLY DISPOSITION FOR THE OTHER
-- MATERIALS(WORK ON THIS PROJECT HAS BEEN TRANSFERRED TO OTHER
-- CORPORATE FACILITIES)WAS STATED IN THE 11-28-61 APPLICATION FOR
-- SUC-509, SO ONLY PARTIAL CREDIT WAS GIVEN FOR THE ACCOUNTING OF
-- MATERIALS. THE INSPECTION REPORT DOES NOT MAKE IT CLEAR IF THE
-- ACTUAL WORK AREA OF C-04971 WAS SURVEYED OR DECONTAMINATED IN THE
-- CLOSEOUT PROCEDURES OF THE SNM LICENSE. CONTAMINATION AT THIS
-- FACILITY CANNOT BE RULED OUT AND THE RECORDS SHOULD BE REVIEWED FOR
-- COMPLIANCE WITH CURRENT STANDARDS. THE DECONTAMINATION ACTIVITIES OF
-- THE SNM LICENSE INVOLVED SOME INCINERATION OF CONTAMINATED
-- MATERIALS(ASH SENT TO OAK RIDGE)AND DISPOSAL IN THE LICENSEE'S DUMP
-- OF MATERIALS NOT THOUGHT TO BE CONTAMINATED BY STANDARDS OF THAT ERA.

END OF COMMENTS FOR LICENSE EVALUATION

--- EXPERT SYSTEM EVALUATION WAS BASED ON THE ---
---- FOLLOWING INVENTORY RECORD -----

Docket Number: 40-03558 REGION RESPONSIBLE: I
LICENSEE NAME: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU.DEPT.
STREET ADDRESS: P. O. BOX 128 AT BLAIRSVILLE, PA.
FIPS state code (principal operation): PA
Site used: LICENSEE'S MATERIALS MANUFACTURING DEPT. AT BLAIRSVILLE, PA.
Disposition information present: OTHER DOCUMENT PRESENT IN FILE
Contents of other disposition information:
INSPEC.OF 10-18-61 REPORT & APPLICATION OF 11-28-61:SOME TRANSFERRED &
Matl. Transfrd to: 360 LBS. OF U METAL SLUGS TO SUC-509 & OTHERS
License to which transferred: SUC-509 & UNK
This license was listed as expired on 12/31/61
COMMENTS: FOR 3500 LBS. OF SOURCE MATERIAL TO USE IN THE PREP. OF ALLOYS
JOB NUMBER: 1700 BOX NUMBER: 11
OTHER LICENSE NUMBERS IN FILE: C-03640 ; C-04415 ; SUC-00509

Date of last evaluation or revision: 10/12/93

Reviewer: PAB

EXPERT SYSTEM LICENSE EVALUATION
 EVALUATION REPORT FOR LICENSE SUC-00509
 Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU. DEPT.
 Site of operation: LICENSEE'S MATERIALS MANUFACTURING DEPARTMENT AT BLAIRSVI

DESCRIPTION OF ACTIVITY OR FACILITY: STORAGE FACILITY ONLY

----- MATERIALS INFORMATION FOR THIS LICENSE -----
 --Information on type and form of materials--
 Material-- --Form--

NATURAL U/NORMAL U	Loose material
--------------------	----------------

For evaluation purposes, amounts of the following materials were obtained

---Material---	---Form---	Amount	Unit	Score
NATURAL U/NORMAL U	LOOSE	360.00	LB	1.9

 INITIAL SITE SCORE, based on LOOSE material possession limits: 1.85

1. License had disposition information which was adequate to disqualify the loose materials.

FINAL DECISION FOR LOOSE MATERIALS:

POTENTIAL SITE CONTAMINATION:
 ELIMINATED FROM CONSIDERATION FOR SITE CONTAMINATION
 Reason for elimination: Disposition info adequate

EXPERT SYSTEM EVALUATION WAS BASED ON THE
 INVENTORY RECORD IN JOB 1700, BOX 11

Docket 40-03558

Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU. DEPT.
 Address: P. O. BOX 128 IN BLAIRSVILLE, PA. Zip:
 State of operation: PA
 Site used: LICENSEE'S MATERIALS MANUFACTURING DEPARTMENT AT BLAIRSVILLE, PA.
 Disposition information present: CERTIFICATE
 Text of certificate of disposition:
 1-11-65:TRANS TO WESTINGHOUSE ATOMIC FUEL DEPT. AT CHESWICK, PA.
 Matl. Transfrd to: LICENSEE'S ATOMIC FUEL DEPT. AT CHESWICK, PA.
 License to which transferred: SMB-152
 This license was listed as expired on 12/31/64
 Remarks: FOR STORAGE ONLY OF 360 LBS. OF REJECT URANIUM METAL SLUGS
 JOB NUMBER: 1700 BOX NUMBER: 11

Date of last evaluation or revision: 10/12/93

Reviewer: PAB

EXPERT SYSTEM LICENSE EVALUATION
EVALUATION REPORT FOR LICENSE C-04971

Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU.DEPT.

Site of operation: LICENSEE'S MATERIALS MANUFACTURING DEPT. AT BLAIRSVILLE, PA

The final ranking for SITE CONTAMINATION is: 11

DESCRIPTION OF ACTIVITY OR FACILITY: LABORATORY/RESEARCH

----- MATERIALS INFORMATION FOR THIS LICENSE -----

Material-- --Information on type and form of materials--
--Form--

SOURCE MATERIAL-N.O. Loose material

For evaluation purposes, amounts of the following materials were obtained

---Material--	--Form--	Amount	Unit	Score
SOURCE MATERIAL-N.O.	LOOSE	3500.00	LB	9.4

INITIAL SITE SCORE, based on LOOSE material possession limits: 9

DESCRIPTION OF FIRST SITE AT WHICH C-04971 WAS USED

LICENSEE'S MATERIALS MANUFACTURING DEPARTMENT AT BLAIRSVILLE, PA.
THE OPERATIONS OF SNM-37 WERE ALSO AT THIS SITE, BUT THERE IS NO
INFORMATION ON THE ACTUAL AREAS OF THE FACILITY IN USE FOR C-4971.

Description of THE LICENSEE ACTIVITY AUTHORIZED by this license

USE IN A RESEARCH AND DEVELOPEMENT PROGRAM TO PRODUCE ALLOYS FOR USE
IN FUEL ELEMENT FABRICATION. THERE IS NO INFORMATION ON THE ACTUAL
OPERATIONS IN THIS FILE.

1. There was one identifiable site with this license.
2. FIRST SITE: There was insufficient information in file to determine the likelihood of release to atmosphere or to environment from activities at this site.
3. FIRST SITE: Some likelihood that building onsite could have been left with contamination. Score=score*1.0

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Reviewer's comments concerning potential CONTAMINATION
ALTHOUGH THE FILE IS LACKING INFORMATION ON THE ACTUAL OPERATIONS FOR
THE PROGRAM, THEY DID WORK WITH LOOSE MATERIAL WHICH HAS SOME
POTENTIAL TO CONTAMINATE A FACILITY. THERE IS NO EVIDENCE OF A HEALTH
PHYSICS PROGRAM BEING IN EFFECT.

4. FIRST SITE: There was NO verifiable decontamination of the site at closeout. Score=score*1.2
 5. FIRST SITE: Nature/magnitude of operation should cause small turnover of materials Score=score*0.8
-

Reviewer's comments concerning potential TURNOVER OF MATERIALS

ALTHOUGH THE LICENSEE DID REQUEST 3500 LBS. OF MATERIAL (APPLICATION OF 11-11-58) FOR THE PRECEEDING LICENSE C-4415, LATER APPLICATIONS DID NOT ASK FOR THIS MUCH MATERIAL. THE INSPECTION OF 10-18-61 REPORTS THAT THE INITIAL AND ONLY SHIPMENT OF URANIUM AT 998.1 LBS. WAS RECEIVED IN 1957 FROM NATIONAL LEAD.

6. FIRST SITE: Based on previous answers, the license as used at site is a candidate to use protective clothing, glove boxes, hoods, or a hot cell. The reviewer found no evidence that any of the above were used at this site.
7. FIRST SITE: There was limited use of contaminated waste material in the operation. Score=score*1.2.
8. FIRST SITE: Possible inappropriate disposal or abandonment of contaminated waste material. Score=score*1.1
9. FIRST SITE: There was some documentation of materials disposition, but not complete. Score=score*0.9
10. FIRST SITE: Because the score for this site is below 20 at this point, a closeout survey would not necessarily have been warranted.
11. FIRST SITE: There was no closeout survey for this site. The score will not be altered, since the current score for this site is below 20
12. FIRST SITE: There was NOT an NRC FINAL INSPECTION of the facility.

FINAL DECISION FOR LOOSE MATERIALS:
MODERATE PRIORITY FOR REVIEW

The final SCORE for SITE CONTAMINATION is:	11
--	----

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Reviewer's comments concerning license C-04971

LICENSE C-04971 WAS ISSUED ON 1-4-60 TO COVER A PROGRAM WHICH HAD BEEN CONDUCTED UNDER 2 PREVIOUS LICENSES (C-4415 ISSUED ON 11-12-58 TO EXPIRE ON 11-30-59 AND C-3640 ISSUED ON 1-8-57 TO EXPIRE ON 2-1-58) AT WESTINGHOUSE'S BLAIRSVILLE, PA. FACILITY. THE INSPECTION OF 10-18-61 (FOR THE CLOSEOUT OF SNM-37 AND A BRIEF EXAMINATION OF THE ACTIVITIES CONDUCTED UNDER C-04971) REPORTS THAT USE OF THE MATERIAL STOPPED IN DEC., 60, AND ONLY 364.5 LBS. OF URANIUM WAS IN STORAGE AT THE FACILITY. IT APPEARS THAT SUC-509 WAS LATER ISSUED TO COVER THE STORAGE OF THIS MATERIAL. THE ONLY DISPOSITION FOR THE OTHER MATERIALS (WORK ON THIS PROJECT HAS BEEN TRANSFERRED TO OTHER CORPORATE FACILITIES) WAS STATED IN THE 11-28-61 APPLICATION FOR SUC-509, SO ONLY PARTIAL CREDIT WAS GIVEN FOR THE ACCOUNTING OF MATERIALS. THE INSPECTION REPORT DOES NOT MAKE IT CLEAR IF THE ACTUAL WORK AREA OF C-04971 WAS SURVEYED OR DECONTAMINATED IN THE CLOSEOUT PROCEDURES OF THE SNM LICENSE. CONTAMINATION AT THIS FACILITY CANNOT BE RULED OUT AND THE RECORDS SHOULD BE REVIEWED FOR COMPLIANCE WITH CURRENT STANDARDS. THE DECONTAMINATION ACTIVITIES OF THE SNM LICENSE INVOLVED SOME INCINERATION OF CONTAMINATED MATERIALS (ASH SENT TO OAK RIDGE) AND DISPOSAL IN THE LICENSEE'S DUMP OF MATERIALS NOT THOUGHT TO BE CONTAMINATED BY STANDARDS OF THAT ERA.

EXPERT SYSTEM EVALUATION WAS BASED ON THE
INVENTORY RECORD IN JOB 1700, BOX 11

Docket 40-03558

Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU. DEPT.
Address: P. O. BOX 128 AT BLAIRSVILLE, PA. Zip:
State of operation: PA
Disposition information present: OTHER DOCUMENT PRESENT IN FILE
Contents of other disposition information:
INSPEC. OF 10-18-61 REPORT & APPLICATION OF 11-28-61: SOME TRANSFERRED &
Matl. Transfrd to: 360 LBS. OF U METAL SLUGS TO SUC-509 & OTHERS
License to which transferred: SUC-509 & UNK
This license was listed as expired on 12/31/61
Remarks: FOR 3500 LBS. OF SOURCE MATERIAL TO USE IN THE PREP. OF ALLOYS
JOB NUMBER: 1700 BOX NUMBER: 11

Date of last evaluation or revision: 10/12/93

Reviewer: PAB

EXPERT SYSTEM LICENSE EVALUATION
EVALUATION REPORT FOR LICENSE C-04415
Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU.DEPT.
Site of operation: LICENSEE'S FACILITY AT BLAIRSVILLE, PA.

1. License is nonsuspect because it was superceded by another license

THIS LICENSE WAS ELIMINATED FROM CONSIDERATION
Reason for elimination: SUPERCEDED BY NEW LICENSE

EXPERT SYSTEM EVALUATION WAS BASED ON THE
INVENTORY RECORD IN JOB 1700, BOX 11

Docket 40-03558

Licensee: WESTINGHOUSE ELECTRIC CORP. MATERIALS MANU.DEPT.

Address: P.O. BOX 128 AT BLAIRSVILLE, PA. Zip:

This license was listed as SUPERCEDED BY ANOTHER LICENSE

Contents of the new license field C-4971 ON 1-4-60

State of operation: PA

Site used: LICENSEE'S FACILITY AT BLAIRSVILLE, PA.

Disposition information present: NO DISPOSITION INFORMATION GIVEN

Remarks: FOR 3500 LBS. OF SOURCE MATERIAL TO USE IN PREPARATION OF ALLOYS

JOB NUMBER: 1700 BOX NUMBER: 11

Date of last evaluation or revision: 10/12/93

Reviewer: PAB

EXPERT SYSTEM LICENSE EVALUATION
EVALUATION REPORT FOR LICENSE C-03640

Licensee: WESTINGHOUSE ELECTRIC CORP.

Site of operation: LICENSEE'S FACILITY AT BLAIRSVILLE, PA.

1. License is nonsuspect because it was superceded by another license

THIS LICENSE WAS ELIMINATED FROM CONSIDERATION
Reason for elimination: SUPERCEDED BY NEW LICENSE

EXPERT SYSTEM EVALUATION WAS BASED ON THE
INVENTORY RECORD IN JOB 1700, BOX 11

Docket

Licensee: WESTINGHOUSE ELECTRIC CORP.

Address: BOX 128 BLAIRSVILLE, PA.

Zip:

This license was listed as SUPERCEDED BY ANOTHER LICENSE

Contents of the new license field C-4415 ON 11-12-58

State of operation: PA

Site used: LICENSEE'S FACILITY AT BLAIRSVILLE, PA.

Disposition information present: OTHER DOCUMENT PRESENT IN FILE

Contents of other disposition information:

LICENSEE LETTER OF 11-11-58:GIVES THE INVENTORY IN THEIR POSSESSION

Remarks:FOR 1,000 LBS. OF REFINED SOURCE MATERIAL TO USE IN PREP.OF ALLOYS

JOB NUMBER: 1700 BOX NUMBER: 11

Date of last evaluation or revision: 10/12/93

Reviewer: PAB

Westinghouse Electric Corporation

Power Systems

Electro Mechanical Division

Box 217
Cheswick Pennsylvania 15024
Cable WECHESWICK
(412) 274 6300
(412) 363 8700

Crocker
1/19/71
W. R. F.
A. K.
H. B.

January 12, 1971

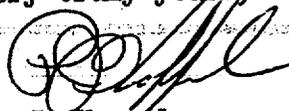
U. S. Atomic Energy Commission
Division of Compliance
Washington, D. C. 20545

Attention: Mr. Lawrence D. Low, Director

Gentlemen:

Attached is a report concerning the internal radiation exposure of eight Westinghouse Electric Corporation employees. This exposure occurred while the employees were working at the Cheswick Site operating under License SNM-338, Docket 70-337. Employees "A" through "H" were exposed while working at a wet grinding operation. Information concerning these employees is presented on a supplementary sheet. The employees have been notified per 10CFR20.405(b).

Very truly yours,



P. J. Koppel
Manager of Manufacturing

rs

Attachments: Report of Exposure and
Supplementary Sheet (2 copies each)

cc Mr. R. W. Kirkman
Region I, Division of Compliance, USAEC
970 Broad Street
Newark, New Jersey 07102

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
EOIA- 2070-0041

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ITEM # 239 (41)

Westinghouse Electric Corporation
Box 217
Cheswick, Pennsylvania 15024

SUPPLEMENTARY SHEET
REPORT OF EXPOSURE
EMPLOYEES "A" THROUGH "H"
JANUARY 12, 1971

The employees identified as "A" through "H" in the attached "Report of Exposure" dated January 12, 1971, are as follows:

<u>EMPLOYEE</u>	<u>NAME</u>	<u>DATE OF BIRTH</u>	<u>SOCIAL SECURITY NUMBER</u>	<u>URANIUM MPC HOURS</u>
A	[REDACTED]	[REDACTED]	[REDACTED]	55
B	[REDACTED]	[REDACTED]	[REDACTED]	62
C	[REDACTED]	[REDACTED]	[REDACTED]	43
D	[REDACTED]	[REDACTED]	[REDACTED]	65
E	[REDACTED]	[REDACTED]	[REDACTED]	55
F	[REDACTED]	[REDACTED]	[REDACTED]	84
G	[REDACTED]	[REDACTED]	[REDACTED]	50
H	[REDACTED]	[REDACTED]	[REDACTED]	104

EX
6

~~XXXXXXXXXX~~ # _____

REPORT OF EXPOSURE
EMPLOYEES "A" THROUGH "H"
JANUARY 12, 1971

Extent of Exposure

Employees "A" through "H" were exposed to concentrations of airborne radioactive materials as shown in Table I. As a supplementary evaluation, bio-assay samples were taken on all personnel suspected of exposures.

Description of Operation

The work being performed was wet grinding of low enriched (3-5%) Uranium Oxide high-fired pellets on centerless grinders.

Concentrations of Radioactive Material

The concentrations of airborne radioactive materials varied up to a maximum of 2400 d/m/m³. The concentrations were determined by continuous air samplers operating in close proximity to the breathing zone of the machine operators. It should be noted that particle size evaluations indicate that the size of the particles, from these wet operations, are primarily in the non-hazardous range (greater than five microns).

Cause of Exposure

As soon as the data from the air samples became available, an evaluation of the sample data was initiated and possible causes for the sudden increase in airborne concentrations were examined. Examination of the air sampling filter media indicated that there was a possibility of a splashing from the grinders' coolant water sometime during the processing operations. Subsequent data, however, indicated a continuing elevated concentration which appears to have been caused by the accumulation of an excessive amount of Uranium Oxide in the coolant water of the grinder.

Corrective Action

Personnel suspected of abnormal exposure were scheduled for work in areas which would assure that their subsequent exposures would be low (10-20% of MPC). Actions taken to correct the situation include reducing the Uranium concentration in the grinding coolant water with in-line filters and modifying the work-station layout to place the worker at a greater distance from the grinder.

Westinghouse Electric Corporation
 Box 217
 Cheswick, Pennsylvania 15024

TABLE I

<u>EMPLOYEE</u>	<u>DATE</u>	<u>SHIFT</u>	(D/M/M ³) <u>EXPOSURE</u> (1 day)	<u>EQUIPMENT</u>	(D/M/M ³) <u>TOTAL EXPOSURE</u> (Week of Dec. 6-11, 1970)	<u>URANIUM</u> <u>MPC-HOURS</u>
A	12/8/70	1	8,770	1 CG*	12,174	55
B	12/8/70	1	10,236	1 CG	13,778	62
C	12/11/70	1	5,454	1 CG	9,524	43
D	12/8/70	2	10,236	1 CG	14,381	65
E	12/8/70	2	7,434	1 RG**	12,140	55
F	12/8/70	3	11,058	1 CG	18,494	84
G	12/9/70	3	8,820	1 RG	11,026	50
H	12/7/70	3	14,064	1 CG	22,884	104

*CG Cincinnati Grinder
 **RG Royal Master Grinder

Health, Safety, and Services
 January 1971