

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

DEC 6 1962

12:50D  
70-00 and 139

Facellard Industries, Inc.  
115 Astor Street  
Newark, New Jersey

Attention: Mr. Lawrence C. Dunton  
Manager, Atomic Energy Development

Re: Contamination

Reference is made to the "Certification of Status of Special Nuclear Material Activities Under United States Atomic Energy Commission License Number 231-93" dated November 30, 1962, by which you advise that all special nuclear materials produced and/or possessed under License 231-93 into both or will be disposed of in compliance with 10 CFR 20 prior to December 31, 1962. Reference is also made to our letter of June 13, 1962, requesting that at least fifteen days prior to vacating the facility, or to using it for any purpose other than authorized under your license, or prior to December 15, 1962, whichever is earliest, you submit to us a report indicating the levels of fixed and removable contamination existing in the facilities.

Consideration may be given to cancellation of License 231-93 on receipt of your report of contamination levels. Please note that pipes, columns, ducts or other areas difficult to survey for built up contamination shall be treated as containing special nuclear material and should be disposed of prior to termination of the special nuclear material license. Further, if you are unable to provide the report by December 15, 1962, you should request temporary renewal of 231-93 to authorize your continued possession of the special nuclear material present as contamination.

Very truly yours,

Distribution:

Compliance Hdqrs. (2) for certification of status 11/30/62

RECEIVED  
DIVISION OF LICENSING AND REGULATION  
U.S. ATOMIC ENERGY COMMISSION  
WASHINGTON, D.C. 20545  
DEC 10 10 41 AM '62

From CO - Hdqrs.

U.S. ATOMIC ENERGY COMMISSION  
**OUTGOING TELECOMMUNICATION MESSAGE**

(See reverse side for instructions)

PRECEDENCE DESIGNATION (Check appropriate boxes. Average transmission time exclusive of messenger services is shown.)  ACTION: <input type="checkbox"/> DEFERRED (2-4 Hrs.) <input type="checkbox"/> ROUTINE (1-1½ Hrs.) <input checked="" type="checkbox"/> PRIORITY (½-1 Hr.) INFO: <input type="checkbox"/>	TYPE OF MESSAGE (Check one) <input type="checkbox"/> SINGLE ADDRESS <input type="checkbox"/> MULTIPLE ADDRESS <input type="checkbox"/> BOOK MESSAGE	FOR COMMUNICATION CENTER USE MESSAGE IDENTIFICATION NR: <b>6X</b> DTG: _____ Z	
		OFFICIAL BUSINESS <i>Robert W. Kirkman</i> (Signature of certifying official)	
FROM: USAEC ROBERT W, KIRKMAN, DIRECTOR REGION I, DIVISION OF COMPLIANCE NEW YORK 14, NEW YORK		DATE OF MESSAGE: 11/1/62	

TO: USAEC  
 LEO DUBINSKI, ASST. DIRECTOR FOR MATERIALS,  
 DIVISION OF COMPLIANCE, WASHINGTON 25, D. C.

COMMUNICATION CENTER ROUTING

ON 10/23-25/62, THIS OFFICE CONDUCTED A CONTAMINATION SURVEY OF FACILITIES AND EQUIPMENT AT ENGELHARD INDUSTRIES, MAKEPEACE DIVISION, ATTLEBORO, MASSACHUSETTS. THE INFORMATION IN THIS TWX IS CONCERNED ONLY WITH APPROXIMATELY 120 PIECES OF EQUIPMENT THAT ARE TO BE SOLD TO THE ITALIAN GOVERNMENT, THE COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY. THIS EQUIPMENT INCLUDES FURNACES, DUCT WORK, PRESSES, ROLLING MILLS, OVENS, PUMPS, TANKS, ETC. NUMEROUS SMEARS AND DIRECT READINGS WERE TAKEN ON THIS EQUIPMENT.

REGARDING THE SMEARS, SOME SMEARS INDICATED LEVELS OF REMOVABLE CONTAMINATION IN EXCESS OF THE LIMITS CONTAINED IN L&R'S 8/15/62 LETTER TO THE LICENSEE. FOR EXAMPLE, (1) AN ABSOLUTE FILTER BOX REVEALED 1200 DPM ALPHA PER 100 CM<sup>2</sup> REMOVABLE CONTAMINATION, (2) A STAINLESS STEEL TANK REVEALED 3600 DPM ALPHA PER 100 CM<sup>2</sup> REMOVABLE CONTAMINATION, ETC.

BE BRIEF-ELIMINATE UNNECESSARY WORDS

ORIGINATOR: COMPLIANCE Roeder:pm <i>JRR</i>	INSERT CLASSIFICATION (If Classified)	RESTRICTED DATA OR ESPIONAGE STAMP, IF REQUIRED
--	---------------------------------------	---



INSERT CLASSIFICATION (IF CLASSIFIED)

U. S. ATOMIC ENERGY COMMISSION

## OUTGOING TELECOMMUNICATION MESSAGE—CONTINUATION

TO: LEO DUBINSKI

PAGE NO.: 3

DATE OF MESSAGE: 11/1/62

25,000 DPM AND AN AVERAGE OF 10,000 DPM.

FOR THE REASONS LISTED ABOVE, WE WOULD CONCUR IF L&R DECIDES THAT THE EXPORT OF THE EQUIPMENT BE MADE ON A GOVERNMENT TO GOVERNMENT BASIS THROUGH DIA. THE LICENSEE REPORTEDLY MUST HAVE THE EQUIPMENT READY TO BE LOADED ON BOARD SHIP BY 12/15/62 OR THEY WILL LOSE THE CONTRACT RESULTING IN A CONSIDERABLE LOSS OF MONEY. A FULL REPORT OF OUR FINDINGS WILL FOLLOW.

PLEASE CONVEY THIS INFORMATION IMMEDIATELY TO DONALD NUSSBAUMER, WHO IS AWARE OF THE PROBLEM. CO:I:JRR

U.S. ATOMIC ENERGY COM.  
N.Y. OPERATIONS OFFICE  
NEW YORK  
NOV 1 4 35 PM '62  
TELETYPE SECTION

INSERT CLASSIFICATION (IF CLASSIFIED)

GPO 8989 17

DIVISION OF COMPLIANCE  
Memo Route Slip

         Action          Information          Concurrence          Review  
         Comment          Note & Return          Per Our Telecon          File

R. W. Kirkman Region I	
G. A. Blanc Region II	
R. C. Hageman Region III	
D. I. Walker Region IV	
R. W. Smith Region V	
Richard Cleveland Region I	X

Re: Engelhard Industries, Inc., (D. E. Makepeace Division) request of August 27, 1962, for cancellation of licenses SNM-185 and SUB-172

Per your telephone request of October 19, 1962, we are attaching a copy of a memo from L&R to Dubinski dated October 17, 1962, subject referenced as above, a copy of a TWX from L&R to Engelhard Industries dated October 17, 1962, and a copy of a letter from Engelhard Industries to L&R dated October 10, 1962.

Attachments:

1. Cy memo dtd 10/17/62 to Dubinski fm L&R
2. Cy TWX dtd 10/17/62 to E. I., Inc. fm L&R
3. Cy ltr dtd 10/10/62 to L&R fm E. I., Inc.

*Willis B. Johnston*  
FROM: Willis B. Johnston, CO:HQ

DATE: 10/19/62

UNITED STATES GOVERNMENT

# Memorandum

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

DATE: OCT 17 1962

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

SUBJECT: ENGELHARD INDUSTRIES, INC., (D. E. MAKEPEACE DIVISION) REQUEST OF  
AUGUST 27, 1962, FOR CANCELLATION OF LICENSES SNM-185 AND SUB-172

LR:JCD

Reference is made to my memorandum, subject as above, dated September 10, 1962.

Attached are the compliance copies of an October 10, 1962, letter from the licensee providing survey results after decontamination of their equipment and facilities. It will be appreciated if you will inspect the facility and advise us of the results of the inspection.

Please note that in the October 10, letter, the licensee states his intention of exporting contaminated equipment to Italy. Accordingly, please determine to the extent reasonably possible, those items to be exported and the extent of their contamination with special nuclear material. A copy of our teletype to the licensee regarding export of SNM is attached.

Attachments:  
As stated

*week of  
O.S.  
21, 1962*

*Contacted Koeder on this - they will get in there next week early. Will call Heis as well find out when they will be there & who will be coming. Jack said they'd get his results as soon as possible. 10/18/62*

233088

X

X

DONALD A. NUSSEBAUMER, CHIEF  
SOURCE AND SPECIAL NUCLEAR MATERIALS BRANCH  
DIVISION OF LICENSING AND REGULATION  
GERMANTOWN, MARYLAND

OCT 17 1962

ENGELHARD INDUSTRIES, INC.  
D. E. MAKEPEACE DIVISION  
FINE & DUNHAM STREETS  
ATTLEBORO, MASSACHUSETTS

ATTENTION: MR. N. M. WEISS  
HEALTH & SAFETY MANAGER

THE INFORMATION CONTAINED IN YOUR OCTOBER 10, 1962 LETTER REGARDING SURVEYS FOR RADIOACTIVE CONTAMINATION OF EQUIPMENT AND FACILITIES IS UNDER REVIEW IN CONNECTION WITH YOUR REQUEST FOR CANCELLATION OF LICENSES SNM-185 AND SUB-172, AND WE ANTICIPATE THAT AN AEC INSPECTION OF YOUR FACILITIES WILL BE CONDUCTED IN THE NEAR FUTURE. HOWEVER, YOUR OCTOBER 10, LETTER INDICATES AN INTENT TO EXPORT CONTAMINATED EQUIPMENT FROM THE UNITED STATES. YOU ARE HEREBY ADVISED THAT AN EXPORT OF SPECIAL NUCLEAR MATERIAL MAY BE MADE ONLY ON THE BASIS OF A GOVERNMENT-TO-GOVERNMENT AGREEMENT BETWEEN THE UNITED STATES AND THE FOREIGN GOVERNMENT RECEIVING THE MATERIAL, OR UPON AEC DETERMINATION THAT THE AMOUNT OF SPECIAL NUCLEAR MATERIAL PRESENT ON THE CONTAMINATED EQUIPMENT IS INSIGNIFICANT.

REFERENCE DOCKETS: 40-768 AND 70-139 LR:JCD

Distribution:

Compliance (Hdqs) 2 w/2c ltr dtd 10/10/62  
Compliance Field (1)

RECEIVED  
DIVISION OF LICENSING AND REGULATION  
U.S. DEPARTMENT OF COMMERCE

OCT 18 1962

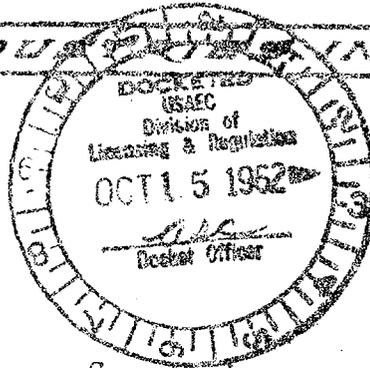
DIVISION OF LICENSING AND REGULATION  
REC-1220

From CO - Hdqs.

*NY*

For Div of Compliance

ENGELHARD INDUSTRIAL CHEMICALS, INC.



D. E. MAKEPEACE DIVISION  
 PINE & DUNHAM STREETS  
 ATTLEBORO, MASS.  
 ATTLEBORO 1 0080

October 10, 1962

United States Atomic Energy Commission  
 Division of Licensing and Regulation  
 Source and Special Nuclear Material Branch  
 Washington 25, D. C.

Attention: Mr. Donald A. Nussbaumer

Subject: Cancellation of SNML-185 and SUB-172

Gentlemen:



In reference to the telephone conversation of September 24, 1962 with Mr. J. C. Delaney, the following information is being submitted with the intention of obtaining approval for cancellation of the above referenced source and Special Nuclear Materials License.

As previously mentioned in our letter of August 27, 1962, we have adhered to the maximum levels specified in your letter of August 15, 1962. Actual levels ranged as follows:

1. Alpha Radioactivity
  - a. Fixed - Average less than 5000dpm/100cm<sup>2</sup> (max. 10,000 dpm/100cm<sup>2</sup>)
  - b. Removable - Average less than 100 dpm/100cm<sup>2</sup> (max. 250 dpm/100 cm<sup>2</sup>)
2. Beta-Gamma Radioactivity
  - a. Fixed - Average 0.2 mr/hr. (Max. 1.0 mr/hr.)
  - b. Removable - Average less than 100 dpm/100 cm<sup>2</sup> (Max. 250 dpm/100cm<sup>2</sup>)

This data was obtained by means of survey instruments and wipe tests in accordance with procedures as outlined in your letter.

Readings were taken on equipment, walls, floors, ceilings, duct work, pipes, conduits, waste disposal facilities, and all other material which was susceptible to radioactive contamination. All of the above equipment including the dust work, piping, and waste disposal facilities has been purchased by the Italian Atomic Energy Commission (CNEEN) whose intention is to use it for nuclear fuel element fabrication. The equipment is in the process of being packaged for shipment to Italy, which must be completed

United States Atomic Energy Commission

October 10, 1962

-2-

by December 15, 1962. It is therefore requested that an inspection be made of our facilities as soon as possible to verify our results and allow cancellation of our licenses. Should additional information be required, please call the writer collect at the earliest opportunity.

Very truly yours,

*N. M. Weiss*

N. M. Weiss  
Health & Safety Manager

NMW:mlr

X

OCT 17 1962

X

DONALD A. NUSSBAIMER, CHIEF  
SOURCE AND SPECIAL NUCLEAR MATERIALS BRANCH  
DIVISION OF LICENSING AND REGULATION  
GERMANTOWN, MARYLAND

ENGELHARD INDUSTRIES, INC.  
D. E. MAKEPEACE DIVISION  
PINE & DUNHAM STREETS  
ATTLEBORO, MASSACHUSETTS

ATTENTION: MR. N. M. WEISS  
HEALTH & SAFETY MANAGER

THE INFORMATION CONTAINED IN YOUR OCTOBER 10, 1962 LETTER REGARDING SURVEYS FOR RADIOACTIVE CONTAMINATION OF EQUIPMENT AND FACILITIES IS UNDER REVIEW IN CONNECTION WITH YOUR REQUEST FOR CANCELLATION OF LICENSES SNM-185 AND SUB-172, AND WE ANTICIPATE THAT AN AEC INSPECTION OF YOUR FACILITIES WILL BE CONDUCTED IN THE NEAR FUTURE. HOWEVER, YOUR OCTOBER 10, LETTER INDICATES AN INTENT TO EXPORT CONTAMINATED EQUIPMENT FROM THE UNITED STATES. YOU ARE HEREBY ADVISED THAT AN EXPORT OF SPECIAL NUCLEAR MATERIAL MAY BE MADE ONLY ON THE BASIS OF A GOVERNMENT-TO-GOVERNMENT AGREEMENT BETWEEN THE UNITED STATES AND THE FOREIGN GOVERNMENT RECEIVING THE MATERIAL, OR UPON AEC DETERMINATION THAT THE AMOUNT OF SPECIAL NUCLEAR MATERIAL PRESENT ON THE CONTAMINATED EQUIPMENT IS INSIGNIFICANT.

REFERENCE DOCKETS: 40-768 AND 70-139 LR:JGD

Distributions:

Compliance (Hdqs) 2 w/2c ltr dtd 10/10/62  
Compliance Field (1)

DIV. OF COMPLIANCE  
REG. 1, USAEC, N. Y.  
RECEIVED

OCT 19 11 51 AM '62

*Be Cleveland*  
*Roeder*  
*sd*

DIVISION OF COMPLIANCE  
Memo Route Slip

     Action      Information      Concurrence      Review  
     Comment      Note & Return      Per Our Telecon      File

R. W. Kirkman Region I		<p>RE: ENGELHARD INDUSTRIES, INC., (D.E. MAKEPEACE DIV.) REQUEST OF AUGUST 27, 1962, FOR CANCELLATION OF LICENSES SNM-185 AND SUB-172</p> <p>This refers to the subject memorandum which is transmitted to you herewith. We feel the subject licensee should be inspected in line with the recommendation in the referenced memorandum. Please let us know of the action you take relative to this matter.</p> <p>Attachment: Cpy memo fm L&amp;R dtd 9/10/62, w/attach</p> <p><i>JW R</i></p>
G. A. Blanc Region II		
R. C. Hageman Region III		
D. I. Walker Region IV		
R. W. Smith Region V		
Jack Roeder Region I	X	

*10/16/62*  
*Called Delaney this date - he had just received Engelhard's survey report. He requested we hold off the inspectors until it is received by him & sent to us.*

*JRR*

**NYOO COMPLIANCE DIVISION**

SEP 25 1962

**RECEIVED**

*Richard B. Chitwood*  
Richard B. Chitwood, CO:Hq.

FROM:

DATE: SEP 24 1962

UNITED STATES GOVERNMENT

# Memorandum

TO : Leo Dubinski  
Assistant Director for Materials  
Division of Compliance

DATE: SEP 10 1962

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

SUBJECT: ENGELHARD INDUSTRIES, INC. (D. E. MAKEPEACE DIV.) REQUEST OF  
AUGUST 27, 1962, FOR CANCELLATION OF LICENSES SNM-185 AND SUB-172

LR:JCD

The compliance copies of the subject letter are transmitted herewith together with a copy of our letter to the licensee requesting additional information.

The survey report we have requested will be sent to you as soon as it is received. You will note that the licensee has requested that an inspection of their facilities, if one is necessary, be performed as soon as possible, so that use of the area for non-nuclear purposes can be initiated without restriction.

It will be appreciated if after you receive the survey report you will inspect the facility and advise us of the results of the inspection.

Attachments:  
As stated

122520



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

IN REPLY REFER TO:

LR:JCL  
42-768  
70-139

Engelhard Industries, Inc.  
D. E. Makepeace Division  
Pine and Dunham Streets  
Attleboro, Massachusetts

SEP 10 1962

Attention: Mr. W. F. Altendorf

Gentlemen:

Reference is made to your letter of August 27, 1962, requesting cancellation of licenses SM-185 and SM-172.

By our letter of August 15, 1962, we requested that you submit to us a report indicating the levels of fixed and removable contamination existing in your facilities. On receipt of this information consideration will be given to cancelling the licenses. Please note that pipes, columns, ducts or other areas difficult to survey for built up contamination must be treated as containing special nuclear material and should be disposed of prior to termination of the special nuclear material license. Further, if you are unable to provide the previously requested report by September 15, 1962, you should request temporary renewal of SM-185 to authorize your continued possession of the enriched uranium present as contamination.

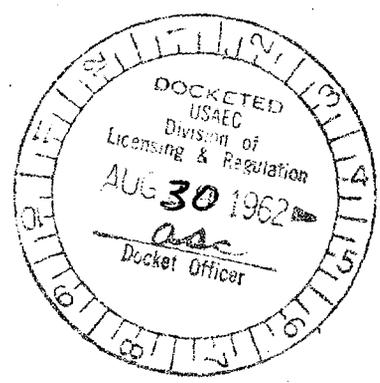
Very truly yours,

Donald A. Musbauer, Chief  
Source and Special Nuclear Materials Branch  
Division of Licensing and Regulation

**ENGELHARD INDUSTRIES, INC.**

For Div of Compliance

D. E. MAKEPEACE DIVISION  
PINE & DUNHAM STREETS  
ATTLEBORO, MASS.  
ATTLEBORO 1-0080  
Phone: No. Attleboro, Mass.  
MYrtle 5-9358



August 27, 1962

United States Atomic Energy Commission  
Division of Licensing and Regulation  
Source and Special Nuclear Material Branch  
Washington 25, D. C.

Attention: Mr. Donald A. Nussbaumer

Subject: Cancellation of SNML-185 and SUB-172

Gentlemen:



With reference to your letter of August 15, 1962, to Mr. N. Weiss, it is our intention to request cancellation of the above-referenced Source and Special Nuclear Material Licenses, thereby releasing us from any requirements contained therein. This request is based on the fact that all Source and Special Nuclear Material has been disposed of in accordance with regulations, and all areas which were used for processing or storage of this material have been decontaminated.

We have used the following levels which we judge to be sufficiently safe for future operation of our former nuclear facility as a clean area:

1. For alpha radioactivity
  - a. - 25,000 d/m/100cm<sup>2</sup> peak
  - b. - 5,000 d/m/100cm<sup>2</sup> average
  - c. - 1,000 d/m/100cm<sup>2</sup> maximum removable by wiping the area with a dry filter or soft absorbent paper.
  
2. Beta and Gamma
  - a. - 1.0 millirad per hour maximum at one centimeter from any contaminated surface measured with a beta-gamma survey meter through a tissue equivalent absorber of not more than 7 mg/cm<sup>2</sup>.
  - b. - 0.2 millirad per hour average, measured as above.
  - c. - 1,000 d/m/100cm<sup>2</sup> maximum removable by wiping the area with a dry filter paper or soft absorbent paper.

United States Atomic Energy Commission

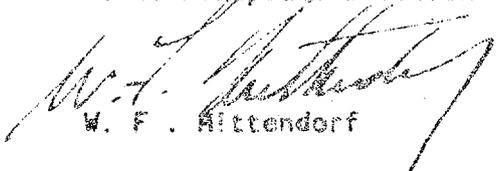
August 27, 1962

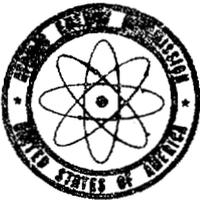
- 2 -

Mr. E. J. Conpronl of the Massachusetts Department of Labor and Industries inspected our facility on July 19, 1962, and indicated that current levels of activity, both fixed and removable, were satisfactory, and that our registration as a nuclear facility would be terminated. If it should be deemed necessary to have a representative of the Commission inspect our plant to verify our results, it is requested that this be done as soon as possible, since future plans include the use of the former nuclear area in a very short time. Should any further information or clarification be required, please advise.

Very truly yours,

ENGELHARD INDUSTRIES, INC.  
D. E. Makepeace Division

  
W. F. Rittendorf



DOCKET NO. 70-139

UNITED STATES

ATOMIC ENERGY COMMISSION

WASHINGTON 25, D. C.

For Div of Compliance

CERTIFICATION OF STATUS OF SPECIAL NUCLEAR MATERIAL PROGRAM UNDER UNITED STATES ATOMIC ENERGY COMMISSION

LICENSE NUMBER SNM- 185

LICENSEE

Engelhard Industries, Inc.  
D. E. Makepeace Division

ADDRESS

Pine and Dunham Streets  
Attleboro, Massachusetts



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

No special nuclear materials have been procured and/or possessed by licensee.

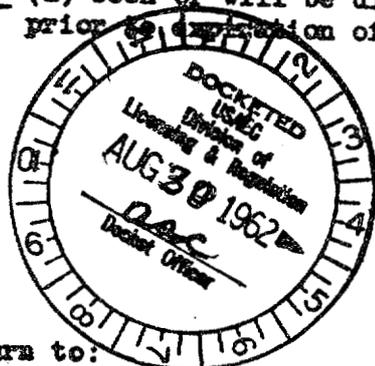
All special nuclear materials procured and/or possessed by licensee under special nuclear material license No. SNM- 185 have:

(1) been or will be prior to expiration of the above license transferred to Davison Chemical Co., Division of W. R. Grace,  
(Institution, firm, hospital, person, etc.)

Erwin, Tennessee

which has special nuclear material license No. SNM-124

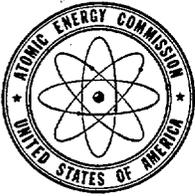
(2) been or will be disposed of in compliance with 10 CFR 20 prior to expiration of this license.



[Signature]  
Certifying Official

Aug 27, 1962  
Date

Please return to:  
U. S. Atomic Energy Commission  
Division of Licensing and Regulation  
Washington 25, D. C.



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

IN REPLY REFER TO:

LR:JCD  
40-768  
70-139

SEP 10 1962

Engelhard Industries, Inc.  
D. E. Makepeace Division  
Pine and Dunham Streets  
Attleboro, Massachusetts

Attention: Mr. W. F. Altendorf

Gentlemen:

Reference is made to your letter of August 27, 1962, requesting cancellation of licenses SNM-185 and SUB-172.

By our letter of August 15, 1962, we requested that you submit to us a report indicating the levels of fixed and removable contamination existing in your facilities. On receipt of this information consideration will be given to cancelling the licenses. Please note that pipes, columns, ducts or other areas difficult to survey for built up contamination must be treated as containing special nuclear material and should be disposed of prior to termination of the special nuclear material license. Further, if you are unable to provide the previously requested report by September 15, 1962, you should request temporary renewal of SNM-185 to authorize your continued possession of the enriched uranium present as contamination.

Distributions:

✓ Compl. Hdqrs (2)

L. Dubinski, w/oy ltr dtd 8/27/62 (2)

Very truly yours,

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

1962 SEP 11 11 51 AM '62

DIA 2-11-62 11 51 AM '62

From CO - Hdqrs.

NY



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

IN REPLY REFER TO:

AUG 15 1962

LR:JCD  
70-139

Engelhard Industries, Inc.  
D. S. Hakepeace Division  
Pine and Dunham Streets  
Attleboro, Massachusetts

Attention: Mr. N. M. Weiss

Gentlemen:

Reference is made to the telephone conversation of July 23, 1962, between Mr. Horton Weiss and Mr. Delaney of this office, during which it was indicated that you may not wish to renew your license Silt-185 beyond its current expiration date of September 30, 1962.

If this is the case, you should at least fifteen days prior to vacating the facility, or to using it for any purpose other than authorized under your license, or prior to September 15, 1962, whichever is earliest, submit to us a report indicating the levels of fixed and removable contamination existing in the facilities. We believe the following levels should not be exceeded:

1. For alpha radioactivity
  - a. 25,000 d/n/100cm<sup>2</sup> peak
  - b. 5,000 d/n/100cm<sup>2</sup> average
  - c. 1,000 d/n/100cm<sup>2</sup> maximum removable by wiping the area with a dry filter or soft absorbent paper.
2. Beta and Gamma
  - a. 1.0 millirad per hour maximum at one centimeter from any contaminated surface measured with a beta-gamma survey meter through a tissue equivalent absorber of not more than 7 mg/cm<sup>2</sup>.
  - b. 0.2 millirad per hour average, measured as above
  - c. 1,000 d/n/100cm<sup>2</sup> maximum removable by wiping the area with a dry filter paper or soft absorbent paper.

NYOO COMPLIANCE DIVISION

From CO - Hdqrs.

AUG 23 1962

Copy furnished field office  
NY

RECEIVED

1st  
ABC

2

Engelhard Industries, Inc.

- 2 -

If detectable plutonium activity is present, the limits suggested in 1(a), (b) and (c) above should be decreased by a factor of ten.

Should you wish the license renewed, however, you should follow the instructions provided in our letter of July 25, 1962.

Very truly yours,

Donald A. Muschauer, Chief  
Source and Special Nuclear Materials Branch  
Division of Licensing and Regulation

Distribution:  
Compliance (2)

**NYOO COMPLIANCE DIVISION**

AUG 21 1962

**RECEIVED**

WASHINGTON D.C.  
U.S. NUCLEAR COMMISSION

AUG 21 1962 5:50

DIVISION OF COMPLIANCE  
RECEIVED

From CO - Hdqrs.

NY

July 11, 1962

U. S. Atomic Energy Commission  
P. O. Box 9  
Oak Ridge, Tennessee

Attention: Production Division

Gentlemen:

Enclosed herewith is the original and one (1) copy  
of Report Form AEC-578 covering our special nuclear material  
transactions in the six month period ending June 30, 1962.

Very truly yours,

D. E. MAKEPEACE DIVISION

John E. Bell, Comptroller

JEB:ana  
Ref: File 3-41-5  
Enc.

cc: U. S. Atomic Energy Commission  
Division of Licensing and Regulations  
Washington 25, D. C.

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>Spiegelhard Industries, Inc., D. F. Mahopessan Div.</u> c. License No. <u>389105</u> b. Address <u>Pine &amp; Dunham Sts., Attleboro, Mass.</u> d. Period Ending <u>June 30, 1962</u>	
2. MATERIAL: (Prepare separate report for each material) <u>Enriched Uranium in the isotope 235</u>	3. WEIGHT UNIT <u>Gram</u>
4. TOTAL QUANTITY AND ISOTOPE DATA	
a. ELEMENT	
b. ISOTOPE	
5. BEGINNING INVENTORY: <u>December 31, 1961</u>	<u>1,271,989.46</u> <u>346,066.27</u>
6. RECEIPTS:	
From _____ Shipper's License No. _____	
_____	
_____	
7. TOTAL RECEIPTS <u>See attached supporting Schedule A</u>	<u>26,267.14</u> <u>10,204.20</u>
8. PRODUCTION	
9. MATERIAL TO BE ACCOUNTED FOR (Total of lines 5, 7, and 8).	<u>1,298,256.60</u> <u>356,270.47</u>
10. SHIPMENTS:	
To _____ Consignee's License No. _____	
_____	
_____	
11. TOTAL SHIPMENTS <u>See attached supporting Schedule B</u>	<u>1,298,256.60</u> <u>356,270.47</u>
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	
14. ENDING INVENTORY	
15. MATERIAL ACCOUNTED FOR (Total of lines 11, 12a, 12b, 13 and 14).	<u>1,298,256.60</u> <u>356,270.47</u>
16. DETAIL OF ENDING INVENTORY:	
a. MATERIAL ON HAND FOR WHICH REPORTING LICENSEE IS FINANCIALLY RESPONSIBLE TO THE AEC UNDER ABOVE LICENSE.	<u>-</u> <u>-</u>
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. _____	
_____	
_____	
<b>TOTAL</b>	<u>7,245.53</u> <u>2,119.44</u>

### COMPOSITION OF ENDING INVENTORY

FORM OF MATERIAL	ELEMENT	% OF ISOTOPE CONTAINED	ISOTOPE	REMARKS
18. COMPOSITION OF ITEM 16a.				
<b>TOTAL</b>				
19. COMPOSITION OF ITEM 16b.				
<b>TOTAL</b>				
20. TOTAL INVENTORY ON HAND <i>(Total of Items 18 and 19)</i>				
21. COMPOSITION OF ITEM 17.				
Enriched uranium scrap	2,762.32	9.47754	261.80	PRDC-SRE Program
Enriched uranium scrap	182.16	9.59046	17.47	PRDC-SRE Program
Enriched uranium scrap	4,201.05	19.99904	840.17	PRDC-SRE Program
<b>TOTAL</b>	<b>7,145.53</b>		<b>1,119.44</b>	
22. TO THE BEST OF MY KNOWLEDGE AND BELIEF THE INFORMATION GIVEN ABOVE AND IN THE ATTACHED SCHEDULES, IF ANY, IS TRUE, COMPLETE, AND CORRECT.				
7/11/62		Comptroller		
<i>(Date)</i>		<i>(Signature and Title)</i>		

18 U.S.C., SECTION 1001; ACT OF JUNE 25, 1948; 62 STAT 749; MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

ENGELHARD INDUSTRIES, INC., D. E. MAKEPEACE DIVISION

ATTLEBORO, MASSACHUSETTS

SCHEDULE A

Receipts:

<u>Date</u>	<u>Number of Transfer</u>	<u>Shipper</u>	<u>License #</u>	<u>SS NET</u>	<u>U-235</u>
2/19/62	198 (PTDC)	Devason Chemical Co.	SNM-12h	14,072.50	3,609.60
5/15/62	1 (PTDC)	Power Reactor Develop. Co.	SNM-426	4,256.24	1,089.60
1/15/62	10	Westinghouse Testing Reactor	TR-2	54.50	50.80
5/31/62	3 (PTDC)	New Brunswick Laboratory	NHL	2,796.90	716.20
3/30/62	--	D. E. Makepeace Division	DEM	<u>5,087.00*</u>	<u>4,738.00*</u>
				<u>26,267.14</u>	<u>10,204.20</u>

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ENGELHARD INDUSTRIES, INC., D. E. MAKEPEACE DIVISION

ATTLEBORO, MASSACHUSETTS

SCHEDULE B

Detail of shipments for period January 1 thru June 30, 1962

<u>Date</u>	<u>Number of Transfer</u>	<u>Receiver</u>	<u>License #</u>	<u>SS NET</u>	<u>U-235</u>
1/24/62	5 (PDC)	New Brunswick Laboratory	NBL	410.10	105.00
1/17/62	22 (PDC)	Power Reactor Development	SNM-426	127,561.60	32,566.20
2/12/62	23 (PDC)	" " "	SNM-426	111,235.60	28,513.60
1/17/62	24 (PDC)	" " "	SNM-426	1,019.00	261.80
2/27/62	25 (PDC)	" " "	SNM-426	5,987.57	1,534.38
6/8/62	26 (PDC)	" " "	SNM-426	1,323.60	338.90
6/11/62	1	" " "	SNM-152	308.12*	30.90*
2/28/62	2	Plymouth Corning Nuclear Corp.	SNM-82	942.98*	878.48*
5/31/62	3 (PDC)	" " "	SNM-82	260,156.00	66,520.53
1/18/62	36	Westinghouse Westing Reactor	TR-2	4,945.35*	4,607.56*
1/18/62	37	" " "	TR-2	213.97	199.94
2/3/62	38	" " "	TR-2	54.50	50.80
3/5/62	39	" " "	TR-2	683.94*	637.30*
3/6/62	2 (PDC)	Aerofos International	AIC	41,872.80	10,731.99
3/30/62	7	Davidson Chemical Company	SNM-124	34,040.35*	31,713.42*
5/20/62	8 (PDC)	" " "	SNM-124	703,117.83	176,722.03
6/25/62	9	" " "	SNM-124	4,201.05	840.17
6/25/62	10	" " "	SNM-124	182.16	17.47
				<u>1,298,256.60</u>	<u>356,270.47</u>

EMELIARD INDUSTRIES, INC., D. E. MAKEPEACE DIVISION

ATTLEBORO, MASSACHUSETTS

SCHEDULE C

Line 17 -- Material in possession of others for which License SWM-185 is financially responsible to the A. E. C.

<u>Name</u>	<u>License #</u>	<u>FB NET</u>	<u>U-235</u>
(1) Davison Chemical Division	SWM-124	2,914.48	279.27
" " "	SWM-124	<u>4,201.05</u>	<u>840.17</u>
		7,115.53	1,119.44

(1) PISC (SEE Program)

4:30 p.m.  
6/29/62

Jack -

Received telephone call from Mr. Norton Weiss of Englehard Industries and he said he was calling in response to a request from P. B. Klevin that our office be notified upon completion of decontamination activities associated with cessation of Englehard's work in Nuclear Industry. Weiss says the decontamination job is now nearly complete but will be interrupted for the next two weeks while the entire plant is on vacation. He expects clean-up to be finished early part of week of 7/16/62. Massachusetts state people expected to make inspection around 7/19/62 and he suggests we schedule inspection to confirm adequacy of clean-up during the week of 7/23/62. He requests that we make our inspection no later than the following week so that they can be done with the whole business.

*Dick*  
Richard Cleveland