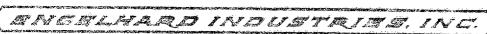
SEP 2 0 1961 Engal Ward Industrials, Earth D. C. Haberpass Division Place and bushes Streets Atolebere, Massachusetts Me. W. P. Mittensiors Sonior Vice-Tranidoms Attention: Contlesso: Tuends you for your Latter dated August 30, 1981, and your su-Land report by Mr. Peles, Informing We that you have corrected, classed report by Mr. Peles, Informing We that you have corrected, and will correct those deficienties in your Mr. Licensed Program which we prought so your attention in our latter of Adquet 4. These matters will be reviewed during the most impaction of year 1961. feellities. Your comperation with us is approximated. Very truly years, ther R. Price Assistant nirector advision of Licensias and Logolation bcc: Compliance Division, HQ)
Compliance Division, NYOO) w/cpy ltr 8/30/61 Public Document Room LR LR:EB ERPrice CCS: 1rm: REC 9-15-61



SET 10. 12 - 139 X Ear Div of Compliance

D. E. MAKEPEACE DIVISION

PINE A DUNHAM STREETS
ATTLEBORO, MASC.
ATTLEBORO 1-0090
QUR 1 10NE

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MEA CODE 617 - CASTLE 2-5500 August 30, 1961

Mr. Eber R. Price
Assistant Directo
Division of Licensing and Regulation
United States Atomic Energy Commission
Washington 25, D. C.

Dear Mr. Price:

We are enclosing, herewith, a report of our Mr. Norton Weiss, Health and Safety officer.

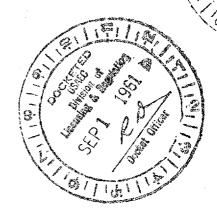
We believe and trust that this report answers the questions which you have raised in your letter of August 8th and that you are in agreement with the steps which have been taken.

Very truly yours,

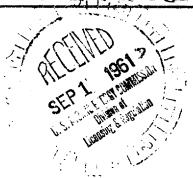
D. E / HAKETEAGE DAVISION

/W. f./Middendorf Senior Vice-Predident

WFM/ms Enclosure



BNGBLHARD INDUSTRIBE, INC.





D. E. MAKEPEACE DIVISION

PINE & DUNHAM STREETS

ATTLEBORO, MASS.

ATTLEBORO 1-0090

OUR NEW TELEPHONE

NUMBER IS

AREA CODE 617 - CASTLE 2-5500

August 30, 1961

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

ATTENTION: Mr. Eber R. Price, Assistant Director

REFERENCE: 20-5216-1; 40-768; 70-139

Gentlemen:

With reference to your letter of August 4, 1961, pertaining to several instances of non-compliance with respect to our Source Material and Special Nuclear Material Licenses, we wish to offer the following information:

As indicated in your letter, whole body exposure of Mr. Ernest Bodwell exceeded 3000 milliroentgens in two quarters of the year 1960. This occurred due to the fact that the source of exposure was misinterpreted as a skin dose only, in accordance with Appendix A of 10 CFR 20, which would allow a maximum dose of 6000 milliroentegens per quarter. We now recognize that due to exposure to the lens of the eye, the 3000 milliorentgen limit should have been applied. As of January 1, 1961, we have issued, and required the use of protective glasses to personnel most likely to receive high external exposures, to be used as a shield against exposures to the lens of the eye. In this manner we are able to interpret all beta exposures from uranium to be skin doses, and now use the appropriate limits as specified in the amended 10 CFR 20 Par. 20,101 (a).

Our incineration procedures called for sampling of the effulent discharged from the incinerator stack and also for downwind air sampling. We felt that this was in accordance with par. 20.103 (b) and (c). No incineration has been performed since December, 1960 due to replacement of the stack and modifications to our stack sampling equipment. We propose to begin incineration within a short period of time and will sample the stack effluent as before. Our downwind sampling, however, will now be done at the perimeter of our property, which will allow us to more closely proximate the concentration of radioactive material released from our restricted area. We trust that this procedure will comply with par. 20.106 (b) and (c) of amended 10 CFR 20.

The exposure of the furnace operators to airborne concentrations of uranium is controlled by means of air samples which are taken to establish atmospheric conditions, and by frequent urinalyses to indicate the extent of internal exposure. Since January 1, 1961, we have increased the number of air samples taken in our processing areas, including the furnace area. Breathing zone as well as general air samples are taken in an attempt to more truly approximate actual exposure. The frequency of urinalyses on some of our personnel including the furnace operators has also been increased in order to prevent the internal accumulation of excessive amounts of uranium.

In general, we feel that our present program of air sampling and urinalysis is adequate to meet the requirements of par. 20.103 (a) and (b).

With respect to the containers which were not labeled in accordance with par. 20.203 (f) (l), (f) (2), and (f) (4), they have since been properly labeled, and instructions have been issued to maintain this condition throughout all processing and storage areas.

We trust that the actions as described above will serve to bring us in full compliance with requirements as outlined in Part 20, Title 10, Code of Federal Regulations, and thank you for bringing these matters to our attention.

Very truly yours,

D. E. MAKEPEACE DIVISION

Norton Weiss Health & Safety Officer

AUG 4 961 Receive

LR: CGW 20-5216-1 40-763 70-139

> Engelberd Industries, Inc. D. E. Mekepeace Division Attleboro, Massachusetts

Attention: Hr. W. F. Mittendorf,

Ceneral Manager

Gentlewen:

This refers to the inspection conducted on December 12 and 13, 1960, of your activities authorized under AEC Byproduct Material License No. 20-5216-1, Source Material License No. C-5161, and Special Muclear Material License No. SMM-185.

There were no items of noncompliance meted for License No. 20-5216-1. With respect to License Nos. C-5161 and SNM-185, it appears that certain of your activities were not conducted in full compliance with the requirements of the ASC's "Standards for Protection Against Redistion," Part 28, Title 10, Code of Federal Regulations, in that:

- 1. Your film bedge records indicate that during the period of January 9, 1960 through Movember 13, 1960, Mr. Everett Bodwell's whole body exposure to beta and genum radiation was in excess of 3000 millireentgess in any one of several periods of 13 consecutive weeks. This is in violation of Section 20,101(a)(2)(ii), "Exposure of individuals in restricted areas."
- Surveys performed pursuant to Section 20.201(b), "Surveys," were not adequate in that:
 - a. you have not determined compliance with Section 30.103(b), "Concentrations in affluents to unrestricted areas," with respect to sirbgrow uranium released to unrestricted areas during incineration of wastes which contained licensed materials, and

REGISTERED MAIL RETURN ENCHIPT REQUISITED

2. continued

- b. you have not determined compliance with Section 20.101(b), "Exposure of individuals in restricted areas," with respect to the furnace melt operator's exposure to airborne radioactivity.
- 3. Six dentainers, in each of which was stored 600 pounds of depleted uranium, were not labeled as required by Section 20.203(f)(2) and (f)(4), "Caution signs, labels and signals."
- 4. A one gallon can which contained 1162 grass of 25% enriched uranium, was not labeled as required by Section 20.203(f)(1) and (f)(4), "Contion signs, labels and signals."

Pursuant to the provisions of Section 2.201(a), "Sotice of violation," of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, you are requested to notify this effice, within thirty days of your receipt of this notice, of why these violations occurred and inform us of the corrective steps taken or to be instituted in echieving correction and preventing further violations and the date when such correction and full compliance will be achieved.

Please note the citations listed above are made under 10 CFR 20 prior to its revision on January 1, 1961. Enclosed is a copy of the former 10 CFR 20 under which you were inspected and a copy of the amended Part 20 which is currently effective.

Thank you for your letter dated May 10, 1961, in which you state that you are determining employee exposure limits pursuent to Section 20.101(b), "Exposure of individuals to radiation in restricted areas," of present 10 CFR 20.

Very truly yours,

bcc: Compliance Division, HQ)

Compliance Division, NYOO) w/cpy ltr 5/10/61

Public Document Room

Eber R. Price
Assistant Director
Division of Licensing
and Regulation

Enclosures:

1. 10 CFR 20

2. 10 CFR 20 Amended

3. 10 CFR 2

DLR:EB CO CGM: 1 rm: REC * DLR ERPrice

VGELHARD INDUSTRIES. D. E. MAREPLACE DIVISION PINE & DUNHAM STREETS ATTLEBORO, MASS. NO. ATTLEBORO XXXXXX MY 5-9358 May 10, 1961 Director, Division of Licensing and Regulation U. S. Atomic Energy Commission Washington 25, D. C. Gentlemen: Reference: Our Letter of April 24, 1961 Concerning Radiation Overexposure Report. With reference to the above letter pertaining to a radiation overexposure to two of our personnel, we have made further study of the situation and feel that in view of provisions stated in 10 CFR 20 par. 20,101 (b.), these people may be allowed to resume their jobs as melters

immediately.

This conclusion was reached by virtue of the fact that we have determined the accumulated occupational dose for each of the individuals on form AEC-4, and have found that the exposures to the whole body received during the first quarter of 1961 were less than three rems and did not exceed the accumulative occupational exposures as determined by the formula 5(N-18).

We are still endeavoring to minimize exposures as much as possible through more rigid supervision and revised operating procedures. In view of the foregoing information, we feel that our interpretation of the regulations is correct and have allowed the two men to resume work on the meiting furnace.

Very truly yours,

D. E. MAKEPEACE DIVISION

Norton M. Weiss

Health and Safety Manager

Nacton W. Wins

NMW:dc

CC: Manager, New York Operations Office D.M. Gardiner, Chicago Operations Office T.F. Kelly. Commonwealth of Massachusetts

Memorandum

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PATE: JUL 2 6 1961

1/20) Service Control of Service Servi

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Like respect to extorement action on the inspection report

Had January 14, 1960, the licenses answered Mr. Delansy's

after of November 27, 1960 on November 30, 1960. Our letter

the licenses dated restuary 10, 1961 acknowledged the

secondary 30 letter and confirmed that deficiencies reported

to the January 14, 1960 report had been corrected.

Mir Cobrust () 196 Letter also constituted a Notice of Molation, with respect to deficiencies listed in the speakingstion report dated October 5, 1960 which you transmatted to 1, 1, Rogers on October 17, 1960.

Please be further informed that we are not citing the licensee under Section 20,105 for failure to limit the country of the melt operator to 107 of the permissible thatly dose following the alleged excessive 13 week exposure. This is not a requirement of present 10 CPR 20, therefore, it will not be brought to the attention of the ficensee.

NYGO COMPLIANCE DIVISION

1961. T.S. J.M. Hqduse

RECEIVED

			C-5161
Name of Licensee: Enge	lhard Industries	Lic. Nos:	20-5216-1
Date of Inspection:D	ecember 12 and	L 3, 1960	
DRAFI		Initials.	Date and Time
Dictated to Stene: 2	/7 - 8/61 PBK		
Received from Steno: 2	/9/61		
Received by Sr. Reviewer	2/10/61		
Returned to Inspector: _	2/10/61		
Passed to Steno for Fina	1: 2/10/61 p.m	PBK	
EINAL		•	
Received from Steno:	2/16/61		
Received by Sr. Reviewer	2/16/61		
Received by Director:	2/17/61		
Received by Sect'y. for transmittal to Wash	2/21/61		
Tuesamittad to Mach	0 /01 /61		