



UNITED STATES
ATOMIC ENERGY COMMISSION
CHICAGO OPERATIONS OFFICE
P. O. Box 59
LEMONT, ILLINOIS

October 23, 1959

Mr. Norton Weiss
Health and Safety Officer
D. E. Makepeace Division
Pine and Dunham Streets
Attleboro, Massachusetts

Dear Norton:

After reading your October 15 letter to Don Gardiner and discussing this situation over the telephone with you, I would like to make a few comments regarding your melting operation exposures.

1. Personnel Exposures. You indicate that one of your workers received a total beta dose of about 3 rep in a one month period. With the allowable dose at 6 rep per quarter (see the addendum to NBS Handbook 59), this means that this man received half the quarterly dose in one third the time. As a result, his exposure should be controlled to insure that in the next two months he will not receive more than 3 rep. Now, if you have taken steps to prevent such exposures in the future by making procedural changes or equipment modifications, this may accomplish the desired exposure control, and it will be unnecessary to take the man off the job. From a public relations point of view (considering legal, union and psychological factors), it is normally better, if possible, to leave a man on the job and control his exposure, rather than to remove him from the exposure.

From what you described in your letter, you have certainly taken some sensible measures to control the exposures in the melting operations. Other firms have had similar difficulties, and have had to resort to such measures to combat them.

October 23, 1959

2. Film Badges. Inasmuch as you have already taken steps to reduce the exposures, and will no longer be pushing the maximum permissible doses, I would suggest keeping the bi-weekly film badge system. As you double the number of film badge systems in effect, you may multiply your administrative work load in that phase by four.

By now you are probably aware of the "minor" criticality accident that occurred at the Chemical Processing Plant in Idaho on October 16. The CPP personnel had done a complete review of their criticality control procedures twice within the past year (after the Y-12 and LASL accidents), and then had an accident anyway. This does not mean that reviews are not valuable, but means that the reviews were evidently not thorough enough. We cannot know how many accidents were prevented as a result of the reviews that were made. I would suggest that you start a complete review of your operations to investigate some of the "low risk" areas where "criticality can't happen." I'll be glad to give you a hand.

Very truly yours,



William A. Brobst
Radiological Physicist
Health and Safety Division

ENGELHARD INDUSTRIES, INC.

mpk
Klein
10-12-59
J. Durant

D. E. MAKEPEACE DIVISION
PINE & DUNHAM STREETS
ATTLEBORO, MASS.
ATTLEBORO 1-0090

October 5, 1959

Mr. Robert W. Kirkman
Director
Inspection Division
United States Atomic Energy Commission
New York Operations Office
376 Hudson Street
New York 14, New York

Dear Mr. Kirkman:

Further in response to your letter of September 14th, we are enclosing the illustrative material you requested in connection with Docket 70-139 concerning feasibility on the production of fuel elements and blanket sub-assemblies for the Enrico Fermi fast breeder reactor.

You will observe that certain drawing numbers have been changed to reflect up dating of designs.

Very truly yours,

D. E. MAKEPEACE DIVISION

John H. Durant
J. H. Durant

JHD/ms

TO ACTION SIGNATURE
JHD

10-10-59
[Handwritten signature]

ENGELHARD INDUSTRIES, INC.

D. E. MAKEPEACE DIVISION
PINE & DUNHAM STREETS
ATTLEBORO, MASS.
ATTLEBORO 1-0090

September 21, 1959

United States Atomic Energy Commission
New York Operations Office
376 Hudson Street
New York 14, New York

ATTN: Mr. Robert W. Kirkman, Director
Inspection Division

Dear Mr. Kirkman:

In response to your letter of September 14th, we are now in the process of assembling the exhibit material which accompanies our feasibility report on Docket 70 - 139 pertaining to our fabrication of a core for the Enrico Fermi Fast Breeder Reactor.

We expect to have the material within a week's time and will forward it straight away.

Very truly yours,

D. E. MAKEPEACE DIVISION

[Handwritten signature: John H. Durant]
John H. Durant
Business Manager

JHD/bs

TO	ACTION	SIGNATURE	DATE
INS		<i>[Signature]</i>	10-1-59

ING:PEK

Ext. 282

September 14, 1959

Englehard Industries, Inc.
Attleboro
Massachusetts

Attention: John H. Durant, Business Manager

Dear Sir:

Would you kindly send a copy of the following plans and report which were formerly submitted to DL&R to the Inspection Division at the above address. If they are not available, or if this is not at all possible, this office would appreciate a reply to this effect.

Docket No. 70 - 139

1. PLANT FOR D. E. MAKEPEACE CO. - NUCLEAR (HOT ROLL) AREA - FLOOR PLAN - NO MATERIAL ZONE, Dwg. No. 2-AE, Set No. 3
2. FLOW CHART PROCESSING OF PRIMARY BILLETS, NUCLEAR METALS, INC., CONCORD, MASSACHUSETTS
3. PROJECT NO. 4 - PLAINVILLE VAULT CUBICLE FOR ENRICHED DERBIES - Size D - Dwg. No. 1033 and 1033-1
4. PROJECT NO. 4 - P.R.D.C. (ITEM P-3) SHIPPING CONTAINER FOR ENRICHED PRIMARY BILLETS - Size E - Dwg. No. 1033-2
5. PROJECT NO. 4 - P.R.D.C. (ITEM P-3) SHIPPING CONTAINER FOR SHIPMENT AND STORAGE OF RODS, SLUGS & COEXTRUSIONS - Dwg. No. 1033-3 - Size D
6. P.R.D.C. (ITEM P-3) SHIPPING CONTAINER FOR SHIPMENT AND STORAGE OF RODS, SLUGS & COEXTRUSIONS - Size D - Dwg. No. 1033-4
7. P.R.D.C. (ITEM P-3) METAL CABINET FOR HOLDING 150 PINS - Size D - Dwg. No. 1033-5
8. ATOMIC POWER DEVELOPMENT ASSOCIATES, INC. - A.P.D.A. CORE SUB-ASSEMBLY "C" DETAILS - CARTRIDGE TYPE WIRE SPACER - Dwg. No. 6XN-1718
I N S P E C T I O N

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9. P.R.D.C. INGOT ANNEALING FIXTURE
10. P.R.D.C. PIN ANNEALING FIXTURE
11. PROJECT NO. 12 - SHIPPING CONTAINER FOR 164 ENRICHED PINS -
Size E - Dwg. No. 1038
12. FEASIBILITY REPORT DEM-6, FABRICATION OF 164 ENRICHED (10%)
FUEL PINS FOR THE SRE TEST PROGRAM

Thank you very much for your cooperation.

Very truly yours,

Robert W. Kirkman
Director
Inspection Division