

# CLEVITE RESEARCH CENTER

DIVISION OF CLEVITE CORPORATION

542 EAST 100TH STREET

CLEVELAND 8, OHIO

September 17, 1958

CLEVITE

TELEPHONE AREA 8500  
CABLE ADDRESS CLEVREAROH

Mr. Lyall Johnson, Chief  
Licensing Branch  
Division of Licensing & Regulations  
U. S. Atomic Energy Commission  
Washington 25, D. C.

Ref: DLR:CMF  
BML 34-663-1 & 2  
40-1389  
40-645  
70-133



Dear Mr. Johnson:

In your letter of September 9 you reported to us the results of the inspection conducted at our facility on May 14, 1958.

With regard to our Special Nuclear Material License No. SNM-183 it was noted that we had in our possession 8,038 grams of enriched uranium or 18 grams more than covered by License SNM-183.

The circumstances resulting in this situation have been examined and are recorded below:

The quantity of enriched uranium as stated in the license application was calculated from data on the required U-235 content of the finished fuel elements plus the allowable overage. This amounted to 8,090 grams of U-235. Our license application requested 8,010 grams of enriched uranium at 89.6% enrichment which would permit us to possess a total of 8,109 grams of U-235.

Our order to Oak Ridge for the material requested a maximum of 8,090 grams of U-235 contained in uranium enriched to 89.65 ± 0.35 percent. The material received from Oak Ridge was as follows:

<u>Net Weight</u>	<u>SS Net</u>	<u>U-235</u>	<u>% Enrichment</u>
8,028	8,022	8,085	89.61

It is evident that the amount of U-235 received is 24 grams less than permitted by License SNM-183. However, since the percentage enrichment of the received material is slightly less than the value

09-103

9402170152 580917  
PDR ADOCK 04000645  
C PDR

NH 6/10

CLEVITE RESEARCH CENTER

-2-

Mr. Lyall Johnson  
AEC, Washington, D. C.

9/17/58

used to calculate our requirements as stated in the license application, the actual amount of enriched uranium received is 12 to 18 grams more than allowed by our license.

In view of the above, we believe that the reported violation could be eliminated with an amendment to our License SNM-183 which revises the way in which the maximum quantity of special nuclear material is stated. The following wording is suggested:

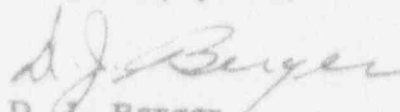
"8.1 kg. of U-235 contained in uranium enriched in the U-235 isotope to a maximum of 90%."

The above situation was discussed with you and Mr. J. C. Delaney in a telephone conversation on September 16 and this approach appeared reasonable. Therefore, we request that our license be so amended.

We trust that the contents of this letter fulfill the provisions of Section 2, 201(a) of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations as they apply to Special Nuclear Materials License, No. SNM-183.

The other points raised in your letter pertaining to License No. 34-653-1 and No. 34-653-2 will be discussed in a separate letter by Mr. E. A. Gentry, Personnel Manager and Safety Director of Cle vite Research Center.

Very truly yours,



D. J. Berger  
Executive Assistant  
Mechanical Research Division

DJB/sj