CLASSIFICATION OANCELLED For The Atomic Energy Commission Chief, Declassification Branch

CO.12-4

Mr. K. G. Wasson Coors Porcelain Company Fuel Element Building Golden, Colorado

Dear Mr. Wasson:

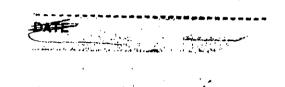
ARGONNE NATIONAL LABORATORY 9700 South Cass Avenue Argonne, Illinois-60440 ANL-FF-769 5 April 1965 Program 9.2.9

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CO.12

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CLASSIFICATION -UNANCED TO



Chief, Declassification Branch

Under separate cover our Purchasing Department is requesting a quote for six fuel specimens. Except for composition, the specimens are to be identical to the pieces identified by requisition number 702881. The six specimens shall have the following composition:

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002:	48 <u>+</u> 3 w/o
Gd203:	3.3 ± 0.2 w/o (i.e. 6.9 w/o of the total oxide)
-	Remainder
C:	Less than 50 ppm

The fabrication of these specimens is to be identical to the fabrication of similar pieces made for Argonne National Laboratory. The gadolinium sesquioxide should be introduced with the uranium dioxide in the body preparation process. The desired structure for the oxides is a homogeneous solid solution. A 1700°C soak for four hours should give the desired structure.

As before, a minimum density of 95% of theoretical is desired. Theoretical density for the solid-solution, oxides is calculated to be 10.67 gm/cc.

Very truly yours,

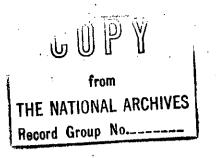
ONCREASE SERVER TY

William G. Tope

WGT/mgm Distribution: 1. K. G. Wasson (Coors) 2. Program 9.2.9 ANL-FF-769 3. R. E. Macherey 4. J. F. Schumar 5. 6. R. A. Noland

- W. G. Tope 7. 8.
 - W. H. Shaw
 - L. K. Hurst Reading Files

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