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114-31029
STOCKS WEAPONRY

Classification cancelled and changed to
DECLASSIFIED

By authority of DOC. May 1973

By: Cupier 6/16/95
PD Cramer
8-23-99

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**SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED**

**APPROVED FOR
PUBLIC RELEASE**

BY AZ Barber DATE 4/18/79
BY WASnyder DATE 4-7/79

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November 18, 1953

To: L. M. Mosker
Operations Sub-Section
234-S Building

CHANGE IN CASTING ANALYZING PROCEDURE

In order to effect a savings in laboratory analytical costs, 1959, the procedure for handling and analyzing the WC-2 and will be revised as follows:

1. The MC-1 and MC-2 casting samples (ca. 2.5 gm. Fe each) were combined and placed in one vial by the operating group and delivered to the laboratory. Laboratory personnel estimate the difference between the two samples by the physical appearance of the turnings.
2. The routine spectrographic analysis will be made on sample only. If the original MC-2 sample results are used, the values listed in the table below, the MC-1 sample will be analysed. (The values given are in parts per million plutonium).

Al	100	Li	
Be	0.13	Mg	
Ca	300	Mn	
Cr	200	Na	20
Fe	1000	Ni	500
La	800	Si	100

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HW-300-29

- 2 -

This change is based on a study of X-ray spectrographic results made by the Statistics Unit which showed that there is no difference in the MC-1 and MC-2 samples for the elements Al, Be, Ca, La, Li, Mg, and Na and that the elements Fe, Cr, Ti, Mn, and Si are consistently higher in the MC-2 sample.

3. In order to minimize the resampling of certain castings due to insufficient sample for analysis, the boron, carbon, and fluorine analysis will be made either on the MC-1 sample or the MC-2 sample at the discretion of the laboratory.
4. The upper rerun value for carbon is increased from 400 ppm (16% of the "q" value) to 500 ppm (20% of the "q" value). This increase will reduce the number of carbon reruns in the laboratory from approximately 40% to 15% without significantly influencing the average monthly o/q value of 0.403.

The Separations Technology Sub-Section, the Operations Sub-Section and the Process Sub-Section have concurred with the above changes.

E. G. Pierick

E. G. Pierick
Process Sub-Section
234-5 Building

EGP:GLBrown:pah

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