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NO. 1 OF 3 COPIES, SERIES A

A-85-012 INTER-OFFICE MEMORANDUM

5-7 012

DATE May 23, 1947

TO: Dr. Eric R. Jette

FROM: Kenneth L. Clark

SUBJECT: Supplemental Monthly Report of Production Data from D.P. West for Period of April 20, 1947 through May 20, 1947.

Symbol: LAB CMR-11

1. Material Control

II-1

(Eighty-one (81) lots were received from Hanford on April 24. The last Hanford lot was cut on April 22. Ninety-nine (99) empty containers were returned to Hanford on May 2. The next shipment from Hanford is due May 23. There will be twenty-seven (27) uncut lots on hand on that date. As of May 20, forty-five (45) empties were ready for return to Hanford.

2. Solutions Room

There are no specific data to report.

3. Bomb Decontamination

Results obtained are summarized as follows:

| | <u>Number Cleaned</u> | <u>Number Monitored</u> | <u>Number Cold</u> | <u>Percent Cold</u> |
|--|-----------------------|-------------------------|--------------------|---------------------|
|--|-----------------------|-------------------------|--------------------|---------------------|

| | | | | |
|-------|-----|-----|-----|--------|
| Bombs | 255 | 242 | 139 | 57 1/2 |
| Plugs | 177 | 177 | 74 | 42 |

4. Recovery

A-1

Recovery received 1454 liters of oxalate supernatant from Purification. This volume was concentrated by evaporation to approximately eight liters. During the period, 969.79 grams of material were returned to storage as a result of concentrating the backlog. The material was put in five liter bottles containing approximately 160 grams each.

5. Purification

II-1

Fifty-nine Hanford lots were processed.

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LANL Classification Group 6

Dry Chemistry

II-1

Fifty-seven lots of oxalate were processed with an average conversion of 95.9%.

7. Reduction

Results of the period are summarized as follows:

| <u>Reduction Series</u> | <u>Number of Reductions</u> | <u>Charge, Gms.</u> | <u>Metal, Gms.</u> | <u>Av. Yield, Percent</u> |
|-------------------------|-----------------------------|---------------------|--------------------|---------------------------|
| A | 11 | 5252.4 | 5127.13 | 97.61 |
| X | 7 | 3442.26 | 3401.10 | 98.80 |
| | 18 | 8694.66 | 8528.23 | 98.09 |

Classification changed to

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By authority of:

JA-4000 Rev. 7 II-1

By: *Ken Clark, FSS-16 TSM, 6/25/96*

Verified by: *Jim Anderson, FSS-16, G.L., 6/25/96*

(Signatures)

(date)

57 [Signature]

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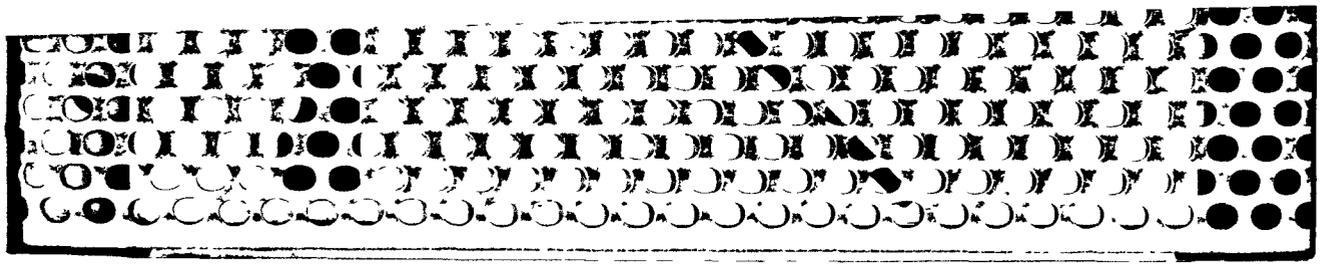
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April 20 - May 20

| | | Castings | Parts Machined | Parts Pressed | Parts Cleaned | Parts Coated | Parts Given Final Grps. | Finished Cores Given Final Grps. |
|---------------------------------------|-------|-------------|------------------------|---------------|---------------|-----------------|-------------------------|----------------------------------|
| In hand at start of period | M III | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| | M IV | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| | R | 0 | 0 | 0 | 0 | 5 | 0 | - |
| | S | 2(a) & 1(a) | 0 | 0 | 1(b) | 0 | 0 | - |
| Parts Worked On during 1st period | M III | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| | M IV | 6 | 5 | 5 | 5 | 5 | 4 | 2 |
| | R | 8 | 2 & 2(c) | 2 & 2(c) | 2 & 2(c) | 1 & 2(e) & 1(e) | 3 & 1(e) | - |
| | S | 0 | 2(a) & 1(a) | 1(d) | 0 | 1(b) & 3(f) | 2(a) & 1(b) & 3(f) | - |
| In hand at end of period | M III | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | M IV | 4 | 1 | 1 | 0 | 2 | 0 | 0 |
| | R | 4 | 0 | 0 | 1 | 3 & 2(c) | 0 | - |
| | S | 0 | 0 | 0 | 0 | 0 | 0 | - |
| No. of parts on hand at end of period | M III | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | M IV | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | S | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

- (a) Castings for CMR-5
- (b) Special x reactor rod for P Div.
- (c) " ~~half~~ rings for M Div.
- (d) Rod extension for ring casting charges.
- (e) Ring returned from M Div.
- (f) Reactor rods returned from P Div.

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Supplemental Monthly Report of Production Data from DP West
April 20 through May 20, 1947, Cont.

8. Alloying and Casting
Six Mark IV hemisphere castings and eight anti-jet ring castings were made successfully. One delta-phase rod casting was made for shearing into ring-casting charges.
9. Machining, Pressing, and Final Inspection
Five Mark IV castings and two anti-jet ring castings were machined and pressed. One delta phase rod was extruded successfully and sheared into proper slugs for anti-jet ring casting charges. Two large alpha phase castings were machined without pressing to very close dimensional tolerances; these were sent uncoated to CMR-5 for pressing experiments by that group. Twenty-five densities were determined. One Mark III gadget and two Mark IV gadgets were given final inspections and sent to shipping. Two split (along equatorial plane) anti-jet rings were fabricated for Group M-2.
10. Cleaning and Coating
Six Mark IV hemispheres, one Mark III hemisphere, two rings, one alpha reactor rod and one delta rod were cleaned and coated. Four rings and two rods, cleaned in the previous period, were also coated. In addition, two Mark IV hemispheres, one ring and three rods were stripped and recoated.

KLC/db

Kenneth L. Clark
Kenneth L. Clark

cc; Pittman
file

| | <u>Mark III</u> | <u>IV</u> | |
|-----------------|-----------------|-----------|-------|
| Completed units | 1 | 2 | |
| Finished parts | Hemispheres | | Rings |
| Pressed parts | 1 | 2 | |
| Cast parts | | | |

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| | Mark III | Mark IV | Special |
|-----------------------|----------|---------------|---|
| Inspected and Shipped | 1 sphere | 2 spheres | 2 delta-phase cylinders for Dr. Walters |
| Machined and Pressed | | 5 hemispheres | 2 split rings for Roberts |