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August 30, 1945

49 INTERIM PROCESSING PROGRAM No. 24

Present: Baker, Covert, Duffy, Garner, Hammel, Jette, Litz, Schmettler, Schoonover, Wahl

First composite sphere. Owing to slight difficulty with the pressing of one of the hemispheres and to the declaration of Monday as a holiday, delivery of the active assembly will probably be delayed until Saturday, September 8. Marshall probably will not receive final dimensions of the Pu hemisphere until September 5. The following schedule is anticipated:

| | | Salara Maria Cara Cara Cara Cara Cara Cara Cara | Coll con | 26 6 |
|---|-----------------|---|-------------|----------------|
| ž | Pu casting read | y: (complet | (e) Fri., 8 | -31 (complete) |
| ž | Pu pressing com | plete: Wed., 9- | -5 Sat., 9 | -1 Fri., 8-31 |
| 1 | Ni coating comp | lete: Thurs., | 9-6 Wed., 9 | -5 Sat., 9-1 |

Sound velocity bar. Pinal coating in progress. Ready for delivery by Saturday, September 1.

Shut-down of Building D production. Since HS-5, HS-6 and R-2 were found to have undergone no dimensional changes within the precision of measurement as a result of the Omega accident, plans for the shut-down were put into effect. Purification and dry chemistry have processed the last lot (Lot 705P) and are engaged in preparing processing facilities for stand-by use. Recovery will continue recovering for about a week and will then shut down for a thorough everhauling of the laboratories, it is not planned to do any further recovery until after DP site has begun processing. It seems unlikely that processing will begin at DP site before October 1.

A. Processing runs of the past week. See Table I. Nine runs were successfully completed, with an output of 1.310 kg Pu (average of 0.146 kg per H lot purified). An additional twelve runs were completed through purification and dry conversion.

B. Pu supply. The results of a physical inventory taken as of 4,30 p.m., Wednesday, August 29, are given in the table below.

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| Phase | Total Pu, kg. | "Usable" Pu, kg. | "Non-usable" Pu, kg. | |
|--------------------------------|------------------------------|---------------------------|----------------------------------|-----|
| Recovery | ~1.4 | ~1.1 | ~0.3 | |
| Purification | 0.176 | 0.170 | 0.006 | |
| Dry Chemistry | 0.558 | 0.558 | | |
| Reduction | cas ess | 40 49 | (a) a <u>n</u> | |
| Remelting | 1.856 | 1.776 | 0.080 | |
| Fabrication and Physical Meas. | 1.824 | 1.695 (incl. HS-7 R-3) | 0.129 | |
| Corresion and Protection | 0.058 | 0.029 | 0.029 | |
| G-1, G eng. | 0.091 | 0.091 | Cd 40 | |
| ÇC | 7.436 | 7.436 (incl. HS-5 |) y an en | 3 |
| U.S. Army | 12.292 | පෙක් | 12.292 (HS-1,2,3,4; R | -1, |
| All others | 0.335 | 0.105 | 0.230 | |
| Total | ~26.0 kg. | ~13.0 kg; | ~13.0 kg. | |
| (Total Hanford I | ou rec'd. to dat | e, through Lot 185H, W | assay: 27.512 kg.) | |
| " Clinton | 9 99 99 99 9 99 99 | n n n , es | t. Y assay: 26.136 kg. 0.282 kg. | |
| | | | Total 26.418 kg. | • |

C. Runs scheduled for August 31 - September 6. See Table II. These runs are expected to be the last until DP site starts operations, which will probably not be before October 1.

C. S. Garner

elg

Distribution

Allison, Anderson, Bacher, Baker, Brown, Burke, Duffield, Garner, Hammel, Jette, Kennedy, Kirby, Lowe, Oppenheimer, Potratz, Schnettler, Schoonover, Smith, Wahl, Weissman, Wolfe

Table I

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Runs Completed August 23-30

| hedule # | Lot I | From | Amt. (g)* | Purification | Dry Chemistry | Reduction | Reduced Metal to Storage or Remelt (g) |
|--------------|-------|------|-----------|--------------|--|------------------------------------|--|
| 22 j | 685P | 166H | 141 | P=2 | A, D-2, HF-3; 95.4% conv. in 10 hrs HF | Combined with $\#22k$, $\#22\ell$ | nus dab |
| 22k | 686P | 167H | 147 | tt | Ditto; 96.4% conv. in 10 hrs HF | Combined with #22j, #22l | |
| 221 | 637P | 183H | 135 | Ŋ | Ditto: 99.8% conv. in 10 hrs HF | A: 99.05% yield | 419.3 |
| 238 | 688P | 169Н | 151 | W . | Ditto; 96.7% conv. in 9 hrs HF | Combined with #23b, #23c | 460 eCT |
| 23b | 689P | 168H | 151 | 88 | Ditto: 94.5% conv. in 10 hrs HF | Combined with #23a, | i de la companya de l |
| 236 | 690P | 170H | 147 | ę́ÿ | Ditto: 100% conv. in 9 hrs HF | A: 99.29% yield | 445.7 |
| 234 | 691P | 273R | 148 | ć. | Ditto: 99% conv. in 10 hrs HF | Combined with #23e, #23f | 6.27 AND |
| 23e | 692P | 171H | 152 | () | Ditto: 96.3% conv. in | Combined with #23d, #23f | ere up |
| 2 3 £ | 693P | 172H | 161 | RQ. | Ditto: 99.0% conv. in 11 hrs HF | A; 98.70% yield | 444.6 |
| | | | | Ţ | otal reduced metal to storag | e or remelt for perio | d: 1309.6 grams |
| | | | | Ţ | otal element returned by met | callurgy to recovery | |

Amount to reduction, based on oxide weight.

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for period (estimated receipts):

grams

Runs Scheduled for August 31-September 6

| | 110. | |
|-------|-------|---------|
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| | | 75 m Av | | | | | | |
|---|-------------|-----------------------|----------|-------|--------------|-----------------|--------------------------|--------------|
| | Schedule # | Date Purif, Starte | Amt. (g) | Lot # | From | Purification | Dry Chemistry | Reduction* |
| | 23 g | रूट च्या | 149 | 694P | 173H | B-2 (completed) | A, D-2, HF-3 (completed) | A |
| | 23h | ay ax | 147 | 695P | 174H | ÎT | 99 | (|
| | 231 | জ এ | 144 | 696P | 175H | दे व | <i>ਹੋਵੇਂ</i> | 豑 |
| | 23.3 | Righ een | 153 | 697P | 176H | ty | 97 | 17 |
| | 23 k | ത യ | 150 | 698P | 177H | 97 | \$7 | Ħ |
| • | 23 <i>L</i> | rissi2 risser | 145 | 699P | 1701 | \$6 | 58 | हें। |
| | 23m | ರದಾ ನರ್ಚ | 242 | 700P | 176 H | 87 | \$¢ | 77 |
| | 23n | ක යා | 147 | 701P | 180H | ବ୍ଷ | 97 | 17 |
| | 230 | , may cuty | 149 | 702P | HISL | ¥ | \$ \$ | # |
| | 23 p | হতার এক্স | 116 | 703P | 272R | 63 | 69 | \$7 |
| | 23 q | # ## | 145 | 704P | 182H | ξγ | 99 | \$7 |
| | 23 r | em esta | 150 | 705P | 184H | \$9 | n | n |
| | | | | | | | | |

^{*} On 450-g scale in general.

