

Dross Analysis  
MONTHLY

| line #  | BRAND X    | SYNEX                |                |
|---|------------|----------------------|----------------|
|   | lbs        | lbs                  |                |
| 1 <b>lbs. dross generated</b>                                 | 120000     | 100000               |                |
| 2 <b>normal aluminum oxide production</b>                     | 40000      | 40000                |                |
| 3 flux in dross (flux used in time period)                    | 5400       | 5400                 |                |
| 4 <b>aluminum in dross</b>                                    | 74600      | 54600                |                |
| 5 % metallics in dross  | 62.17%     | 54.60%               |                |
| 6 <b>metal left in furnace (difference brand x and Synex)</b> | 0          | <b>20000</b>         |                |
| 7 <u>DROSS PROCESSOR EFFICIENCY</u>                           |            |                      |                |
| 8 total metallic in dross (line 4)                            | 74600      | 54600                |                |
| 9 recovery efficiency of dross processor (rule of thumb)      | 95%        | 95%                  |                |
| 10 processor metal loss (metal left in salt cake)             | 3730       | 2730                 |                |
| 11 aluminum cost per lb.                                      | 0.80       | 0.80                 |                |
| 12 value of lost metal left in salt cake                      | 2984       | 2184                 |                |
| 13 actual recovery of aluminum to be returned                 | 70870      | 51870                |                |
| 14 <u>DROSS PROCESSOR COST</u>                                |            |                      |                |
| 15 lbs. dross generated                                       | 120000     | 100000               |                |
| 16 conversion cost / lb paid to dross processor               | 0.08       | 0.08                 |                |
| 17 conversion cost / month                                    | 9600       | 8000                 |                |
| 18 <u>FREIGHT (40000 lb loads)</u>                            |            |                      |                |
|   | per trip   |                      |                |
| 19 freight cost to haul dross                                 | 500        | 1500                 | 1250           |
| 20 freight cost to return metal                               | 500        | 933                  | 683            |
| 21 total freight  |            | 2433                 | 1933           |
| 22 <u>REMELT EXPENSE</u>                                      |            |                      |                |
| 23 returned metal   | 70870      | 51870                |                |
| 24 fuel cost to remelt returned metal                         | 0.05       | 0.05                 |                |
| 25 total remelt cost  | 3544       | 2594                 |                |
| 26 <u>FLUX COST during time period</u>                        |            |                      |                |
| 27 flux usage (varies according to flux used)                 | 5400       | 5400                 |                |
| 28 flux cost per lb   | 0.65       | 0.65                 |                |
| 29 flux cost  | 3510       | 3510                 |                |
| 30 <u>SUMMARY</u>   |            |                      |                |
| 31 dross cost   |            |                      | monthly        |
| 32 metal lost in salt cake                                    | 2984       | 2184                 | Synex saving   |
| 33 conversion cost  | 9600       | 8000                 | 800            |
| 34 freight cost   | 2433       | 1933                 | 1600           |
| 35 remelt fuel cost   | 3544       | 2594                 | 500            |
| 36 <b>TOTAL DROSS EXPENSE</b>                                 | 18560      | 14710                | 950            |
| 37 <b>lbs returned aluminum</b>                               | 70870      | 51870                | \$3,850        |
| 38 returned aluminum cost per lb                              | 0.26       | 0.28                 |                |
| 39 <u>Dross Expenses percent savings</u>                      |            |                      | <b>20.74%</b>  |
| 40 Add savings value of hot metal left in furnace             | 0.28 times | 20000                | =              |
| 41  |            | <b>total savings</b> | <b>\$5,672</b> |
| 42 <b>Total Per Cent Savings</b>                              |            |                      | <b>\$9,522</b> |
|   |            |                      | <b>51.30%</b>  |

could use HET test to determine actual metal in dross  
then use this number to determine efficiency of dross processor