**12GeV Re-Baseline Contingency Estimate**

**Line Item:** Procurement\_of\_Consumables\_for\_Fab\_(2013)\_(FWD\_Chambers)

This BOE estimate is for consumables that will be used in cleanroom operations for the HallD Forward Drift Chamber production. The cleanroom will end all operations in August of 2013 and will need to be manned and supplied with consumables until that time. Manning will be lower than in 2012 and this is taken into consideration in the estimate; however the lower manning estimate is balanced with unforeseen contingency planning. Below is a table of the estimated consumables that will be required:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Qty** | **Unit** | **Cost** | **Total** | **Code** |
| Gloves | 6 | Case | $126.00 | $756.00 | CP |
| Lab Coats | 4 | Case | $91.95 | $367.80 | CP |
| Shoe Covers | 6 | Case | $33.00 | $198.00 | CP |
| Hair Nets | 2 | Case | $38.00 | $76.00 | CP |
| Razors | 3 | Box 100 | $20.33 | $60.99 | CP |
| Face Masks | 5 | Box | $9.85 | $49.25 | CP |
| Conductive Epoxy | 15 | Pack | $75.49 | $1,132.35 | CP |
| Apiezon Grease | 3 | Tube | $142.82 | $428.46 | CP |
| Hysol Resin | 2 | Qt | $45.10 | $90.20 | CP |
| Hysol Hardener | 1 | Qt | $101.50 | $101.50 | CP |
| Scotchweld 1838 | 3 | Tube | $49.74 | $149.22 | CP |
| Red Vinyl Tape | 4 | Roll | $28.69 | $114.76 | CP |
| Propanol, Alcohol | 2 | Case | $89.00 | $178.00 | CP |
| Duster, Canned Air | 12 | Can | $10.65 | $127.80 | CP |
| Bond Glue 406 | 3 | Tube | $22.71 | $68.13 | CP |
| Tackt Mats | 4 | Case | $29.07 | $116.28 | CP |
|  | | | | $4,014.74 | Total |

I estimate approximately 3 man days of technician labor to order, retrieve, inventory and manage the consumables.

If you have further questions please contact:

David Butler

FDC Construction Coordinator

757-269-6500