

Statement of Work

| Item Description | Applicable Contract Function |
|--|---|
| 1 Contamination Engineering | Implementation Phase Services – Mechanical Systems Disciplines |
| Performance Specifications | Delivery Schedule: |
| Provide contamination engineering support to WFIRST mission during phase B activities. Support will include management of detector development cleanroom, coordination with vendors, preparation of spacecraft contamination implementation plan, and oversight of contamination technicians assigned to the project. | 12 Month(s) |
| Item Description | Applicable Contract Function |
| 2 Contamination Analysis | Implementation Phase Services – Mechanical Systems Disciplines |
| Performance Specifications | Delivery Schedule: |
| Perform contamination transport analysis at the observatory level for the WFIRST mission. Perform ascent venting and purge analyses to support design of venting and specification of purge systems. Provide additional analyses as required. | 12 Month(s) |
| Item Description | Applicable Contract Function |
| 3 Contamination Lab Support | Implementation Phase Services – Mechanical Systems Disciplines |
| Performance Specifications | Delivery Schedule: |
| Provide materials and parts testing for cleanliness and outgassing. Perform coatings, cleaning compatibility, and space environment exposure tests as required to support materials and process selection. Provide cleanliness monitoring for cleanrooms and hardware including fallout wafers, tapelifts, and microscopic inspection. | 12 Month(s) |

MIST SOW TASK 167

Title: Contamination Engineering for WFIRST