



MSQ-118 MILSTAR GROUND STATION MANUFACTURING

The MILSTAR Satellite Communications System is a joint service satellite communications system that provides secure, jam resistant, worldwide communications to meet essential wartime requirements for high priority military users. Use began over 15 years ago, in 1994 which, of course, leads to current obsolescence issues.



UST has been working in conjunction with Hill AFB on various components for the MSQ-118 MILSTAR and DSP Ground Station systems for over 10 years.



The 20KV (Kilovolt) power supply is an integral part of the MILSTAR Ground Station. As outlined below was unrepairable and unsupported, which prompted the Air Force to seek alternative methods to keep their Ground Stations functioning

Issues Exhibited by the Customer

- Lack of support from the OEM
- OEM would not manufacture additional spares
- Inability to repair the epoxy potted assembly organically
- Inability to ship completed systems without critical assembly

US Technologies Solution

- Customer was provided a new, complete re-design which helped solve obsolescence issues
- Our new design has a much higher degree of serviceability and durability and uses many COTS parts to mitigate obsolescence issued
- Our solution was more cost effective (considerably less expensive than the OEMs original design) within budget) as well as being produced on-time
- To date we have successfully manufactured and fielded almost sixty units, ahead of schedule and on-budget