



# TCS Services

In today's economic environment, purchasing a new system isn't always a viable solution. We can upgrade and maintain systems currently in operation or refurbish systems that have been decommissioned. We have upgraded several systems built by other manufacturers by integrating our ACU-M1 and Pedestal Interface Unit with a fiber optic control cable between them. Our control cable consists of two pairs of fibers. Only one is needed for communication between the pedestal and ACU. The second pair is automatically selected should a problem occur with the first cable.

## Upgrades & Refurbishments

TCS provides the services to enhance the performance and functionality of currently running systems, or resurrect previously worn out systems. We enjoy making our customers not recognize their systems with the new life we put into them. Some of the services we can provide are:

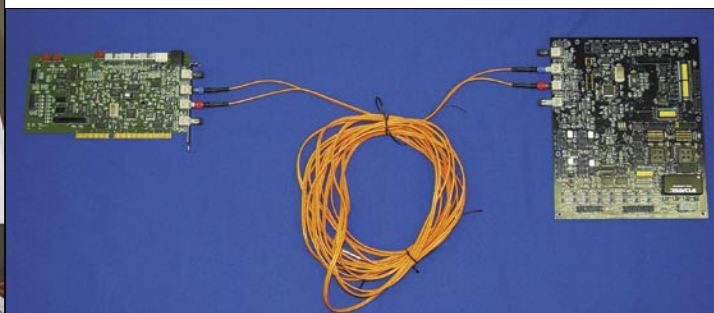
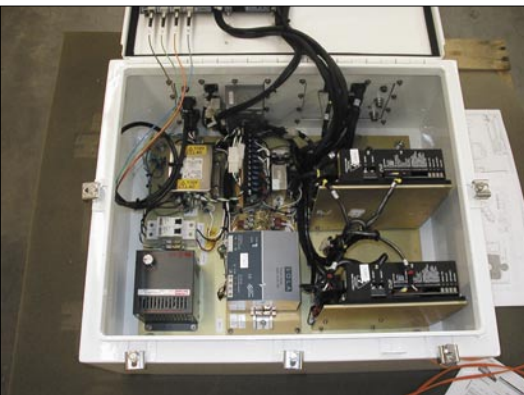
- Integrate state-of-the-art ACU-M1 with our fiber optic control interface
- Integrate pedestal interface unit with almost all new electronics for the pedestal
- Replace old motors with new and more efficient motors
- Replace old servo amplifiers with new PWM high efficiency servo amplifiers
- Custom design and modify feeds to filter out interfering signals and improve RF performance
- Add new capabilities to systems to meet current demands of the telemetry industry
- Overhaul entire gear drive mechanisms
- Inspect seals and replace as required



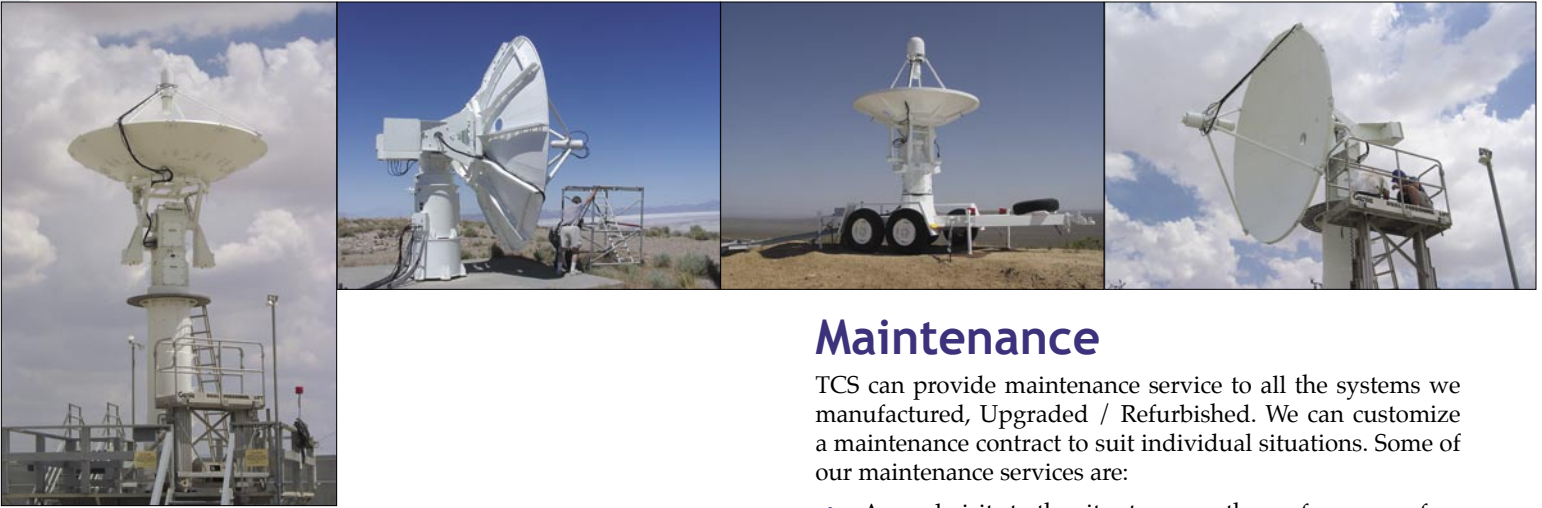
## Modular Design

We designed our PIU and Pedestal Interface PCB to work and play well with just about any system configuration out there. They are incorporated into our pedestal designs, as well as our upgrades and refurbishments. Using this combination allows TCS to complete system integration in less time with a higher level of reliability than conventional approaches. Here are some more benefits of our PIU / Pedestal Interface PCB approach:

- Can handle dual and single speed systems
- Can be upgraded in the future
- Flexible design to adapt to any manufacturer's system
- Easy to maintain & repair with almost all signals available at the Pedestal Interface PCB
- Easy access to all assemblies and modules for quick and easy replacement



# Total Customer Satisfaction



## Customers

Here is a list of some of our satisfied customers for whom we upgraded or refurbished systems.

- NAVSOC – Point Mugu, California
- NWS – Corona, California
- Yuma, Arizona
- Edwards Air Force Base, California
- Eglin Air Force Base, Florida
- Hill Air Force Base, Utah
- PMRF, Hawaii
- Esrange, Sweden
- DECS, California

## Maintenance

TCS can provide maintenance service to all the systems we manufactured, Upgraded / Refurbished. We can customize a maintenance contract to suit individual situations. Some of our maintenance services are:

- Annual visits to the sites to assess the performance of the system and make necessary adjustments / repairs
- On site support for urgent repairs to the systems and training to the maintenance teams
- Technical support over the phone or via emails to help repair, calibrate the systems
- Assign a contact person(s) with phone number(s) for 24 hour assistance



## Telemetry & Communications Systems, Inc.

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