CDU Project Status:

· **Project Overview**

(CDU) serves as the main control unit for tuning and managing three navigation systems: VHF Nav Radio (VOR, Localizer, and Glide Slope), TACAN, and ADF. The CDU features an alphanumeric keypad and software-defined keys for selecting and interacting with these systems. The CDU sends tuning data in the NMEA 0183 format and works in sync with Remote Control Panels (RCP), ensuring that active, standby, and stored frequencies are aligned across the systems.

· **Client Requirements**

**RCP:**

* Testing RCPs
* Updating Firmware for comm. with CDU
  + Implementing the ICD for CDU-RCP Connectivity
  + RCP Internal Variable and Display update on change from CDU

**CDU Simulator:**

* For Nav, Com, Tacan, Adf
* Generating simulated values through PC to test communication with RCP

**CDU:**

* User Interface Definition
  + LCD Pages Definition
  + Button Functions
* CDU Peripheral Driver
  + Nextion LCD
  + 56 Keys Keypad
  + SPI Flash
  + CAN Bus
* Display Pages implementation for received and internal equipment info
* User interface (Soft Keys and Key pad) implementation

· **Current Progress / Completed Work**

· **Remaining Tasks / Work in Progress**

* Updating Firmware for comm. with CDU
  + Implementing the ICD for CDU-RCP Connectivity
  + RCP Internal Variable and Display update on change from CDU
* LCD Pages Definition for ADF and TACAN
* CDU peripherals: SPI Flash, CAN Bus
* Display Pages implementation for received and internal equipment info

· **Challenges and Solutions**

· **Suggestions / Recommendations**

· **Timeline / Deadlines**