

Sub-component Parts List Document

This list of components and sub-components are derived from the System Integrator offered for Air Traffic Control Capability at Kandahar APOD (AARAAS) and prepared for NC3A. This list of sub-components may be used for the purposes of assumptions of equipment, but should not be considered as definitive and binding.

Precision Approach Radar

- PAR-2000 Solid-state active array PAR

 - Antennae

 - Azimuth antenna – active linear phased array feed with shaped reflector

 - Elevation antenna - active linear phased array feed with flared horn

 - T/R Module

 - PAR Receiver/Frequency Generator

 - PAR Signal and Data Processor

 - PAR Display Systems – two displays provided, able to support third display. Capabilities to perform continuous data recording and playback as well as scenario recording and playback.

 - Internal redundancy and dual channel receiver

 - Built-in Test/Fault isolation

 - Output format of IEEE-802 industry standard

Secondary Surveillance Radar

- SSR (RSM970S)

- Dual Motor and Dual Encoder (AS909)

- Mode S SSR Transmitter/Receiver Unit

- Dual Data Processing Equipment

- Controller and Monitoring System (included in STAR 2000 radar)

- Software

- SSR cabinets

Primary Surveillance Radar

- Dual Motor and Dual Encoder to include

 - STAR-2000 Terminal Area Radar

 - Pedestal EA-2000P

 - Antenna AN 2000S (can be co-mounted with MSSR antenna)

- Solid State and Fail-soft modular transmitter

- Dual Channel Receiver

- Dual Signal Processing Equipment

- Weather Channel

- Control and Monitoring System

- Software

- Cabinets

Radio Communication System

- U/VHF Radios – PAE T6 series

- URC-200 radios

- HF Radio – TMR5000

- Terma D-ATIS PLUS system

- AFTN Switch

- Battery Backup Unit, EA-UPSR2816-S01

AFTN

- AERMAC Server

- Software is C language on UNIX platforms

TACAN VORTAC

VORTAC

- DVOR equipment mod 432

- DVOR antenna system

- TACAN equipment mod AN-453

- TACAN antenna system ELTA 200

- Remote Control and Status Information System (RCSI)

Direction Finder

- Femau 2030 DF system with UHF and VHF Air Band Receiver

Displays

- Eurocat ATC system

- LIBERTY STAR VCS (Voice Communication System)

- ATIS Voice Recorder System

- Operator Consoles

ATIS

- Terma D-ATIS PLUS