



UNITED NATIONS AVIATION

Procurement of Aviation Support and Unmanned Aerial Vehicles

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Aviation Support



- Growth
- Fleet Size
- Fleet Change Past and Future
- Increasing capability
- New Technologies
- Procurement of Civil and Military Assets
- UAVs

What We Do!



- Logistic Air Support
- Passenger
- VIP/Negotiation and liaison
- Aerial Patrol, observation and monitoring
- Armed Security Protection Force
- 24/7 Aero-medical evacuation,
- Search and Rescue

What We Do!

Sierra Leone



Aviation Growth



- 1999 - 47 Aircraft

- 2011 – 270 Aircraft
 - 100 Fixed Wing
 - 100 Civil Helos
 - 70 Military Helos

Comparison With Regular Forces



- No funding for a Standby Capability
- SDS – Brindisi, Italy
- Procurement time 4-6 months
- Emergency response from WFP
- Ability to seek ANY aircraft type



Changes in FW Aircraft Types



- 10 years ago
 - Pax on cargo aircraft
 - IL76, L-100, An-26, Beech 200

- Today
 - Cargo: No change but plans unfolding
 - Pax: 757, 737, MD83, CRJ, Dash 8, Let 410 STOL, Beech 200, Learjet

Pax Utility and Liaison Aircraft



Cessna Citation II

Beechcraft 200



Medium fixed wing



L-100 Hercules

Canada Regional Jet
CRJ



Heavy fixed wing



IL-76

Plans for the Helo Fleet



- Build runways - Use fewer helos
- Attract smaller faster helos for casevac – S. Sudan
- Fuel efficiency
- Encourage increased medium helos availability
 - Reduce Air Carrier investment Risk
 - Manufacturer involvement
 - Pool of lease aircraft
 - 50 Helos for Civ/Mil use built for purpose

Heavy helicopters

MI-26



Medium and Attack helicopters



Mi-24



Mi-8MTv



S-61N

Bell-212

AS-330 Puma



Infrastructure

Limited Support - Chad Refuelling Mi8MTV



Iriba Airport ! Chad



Extendable Runway !



Upgrades



- Runways and Aprons
- Hangars and Fuel Farms
- Runway lights, including Solar
- Mobile Towers
- Cat 7 Fire Service
- Nav Aids – DME, ADSB, GNSS, Satellite Tracking
- Cargo Handling – Systems Contracts
 - Allows change of aircraft – CN 235, B-777, A400?

Aircraft Acquisition Process



➤ Military

- LOAs - 1 year
- MOUs
- Force Requirements, FGS, Single Mission

➤ Civilian

- Contracts – 3years
- Flexible, Multi-mission, Regional
- ITBs vs RFPs

Command and Control



- Accident History
- Single Air Ops Centre
- Jointly manned
- SOPs for delegated pre-approved launch authority
- Limited hours on LOA
- Scarcity of resource
- Member States impose budgetary constraint



Unmanned Aerial Vehicles

C-34 Proposals and Recommendations



- 2006
 - Examine all forms of monitoring and surveillance technology, particularly aerial monitoring.
 - Ensure safety and security of peacekeepers.
 - DPKO: Comprehensive assessment in 2007

- 2007
 - Welcomes a study launched
 - Secretariat to develop appropriate modalities for the use of advanced monitoring and surveillance technologies (legal, operational, technical and financial)

UNOMIG UAV - Kodori Valley



Lower Kodori



Why Have UAVs?



In essence:

1. Use UAVs to do tasks we currently cannot or would not do.
2. Do current tasks safer, better, longer and cheaper.

Based on MONUC Requirements



- 2 x 3. Over the horizon relay UAV
- 8+ hours loiter
- Range: 250+ km
- Altitude: 10,000'+
- Identify 2m target at 5km
- Safety modes
- 10 hours ops, 5 days/week
- 72 hours surge
- Self reliant contractor
- Contractors alongside Air Ops and Mil
- Estimated Cost \$3M per UAV



Procurement Process



- Failure of TCCs to respond
- EOIs - 2007
- RFP - 2008
 - Non-specialist view of Mandatory Requirements
 - Costs
 - Vendor visit to MONUC
 - HCC Rejection
- RFP – 2009
 - Confidence Boosting of the process
 - Mission Cancellation - Economic Impact



And Finally!



Unmanned Parachutes

Somalia

GPS Guided Parafoil



Ceiling 35,000 ft
Glide up to 30 miles
Max. gross 2,000 lb

In Summary



UN Aviation of today is a far cry from that of yesteryear.
Much has been done but much remains to be done.

Passenger carrying has been overhauled.

Helicopter provision is in the process of a radical change.

Air cargo is primed for change.

Airfield infrastructure capabilities are being focused.

New technologies are being employed.

Staffing, training..... the list goes on.

