F404/414 GE TLS Contract

FLTLT Natalie Kell

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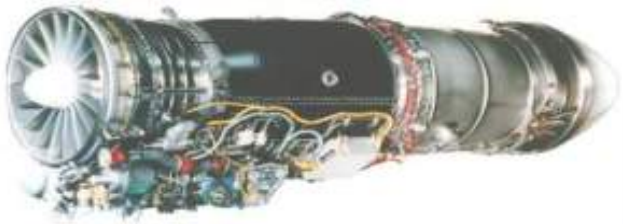
Tactical Fighter Systems Program Office
TFSPO: to be the best SPO in the DMO

Overview

F18 Hornet - GE F404 Engine

132 Engines – 24,000 Flight Hours / year



F18 Super Hornet – GE F414 Engine

46 Engines – 10,000 Flight Hours / year

True TLS Contract

A Customized Performance Based Logistics Aftermarket Solution

- Lean Six Sigma
- Component Repair
- Depot Labor & Management
- Risk Sharing
- Transportation

- Configuration Control
- Material Management & Warehousing

- Field Service Reps
- IT Integration

- O&I Level Support
- Engineering
- Technical Publications
- Program Management
- Upgrade Kits

Monitoring Performance

Key Result Area (KRA)	Key Performance Indicators (KPIs)	KPI Metrics
Engine Availability	KPI1 – Engine Availability KPI2 – RI Availability KPI3 - Non-RI Availability	KPI1 – Engine Minimum Asset Level KPI2 – RI Demand Satisfaction Rate (DSR) KPI3 - Non-RI DSR
Engine Reliability	KPI4 – Engine Mission	KPI4 - Engine-Caused Mission Abort (MA) Rate
Engine Airworthiness	KPI5 – Engine Airworthiness	KPI5 - Engine In-flight Shut Down (IFSD) Rate

Affects Performance Payments

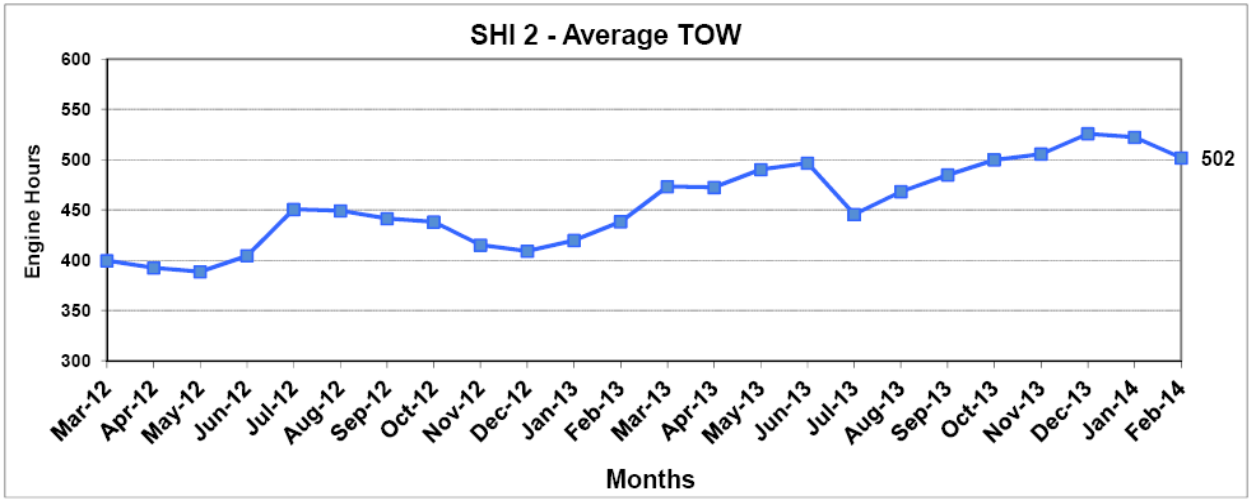
SHI #	System Health Indicator
SHI1	Cannibalisation Rate
SHI2	Average Time On Wing (ATOW).
SHI3	Average Potential Time on Wing (APTOW).
SHI4	Unscheduled Engine Replacement Rate (UERR).
SHI5	Top 10 Unscheduled Engine Replacement Causes.
SHI6	Top 10 IFSD Causes.
SHI7	Top 10 Engine-caused MA Causes.
SHI8	Technical Information Review (TIR) Backlog.
SHI9	Responsiveness to Customer Publication Improvement Request and Reply (PIRRs).
SHI10	Priority Demand Failures.
SHI11	Control and Accessory - No Fault Found

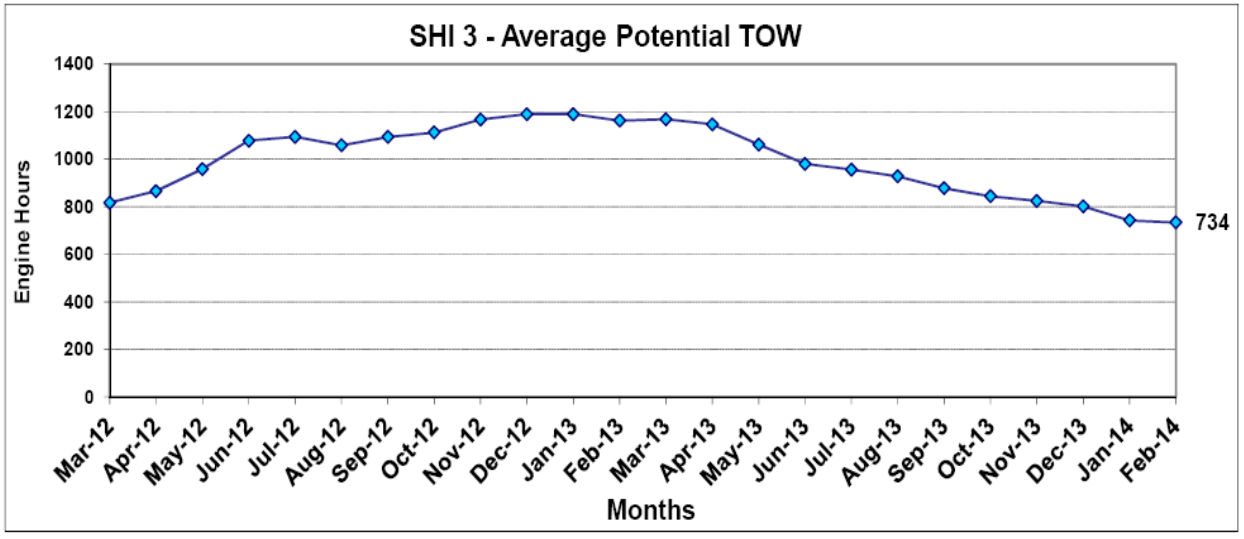
Leading Indicators

Fleet Planning

- Managing lifing and hours to ensure maximum engine on wing time.
- Matching engines and airframes
- Working with feet planning to understand the priorities.

F404

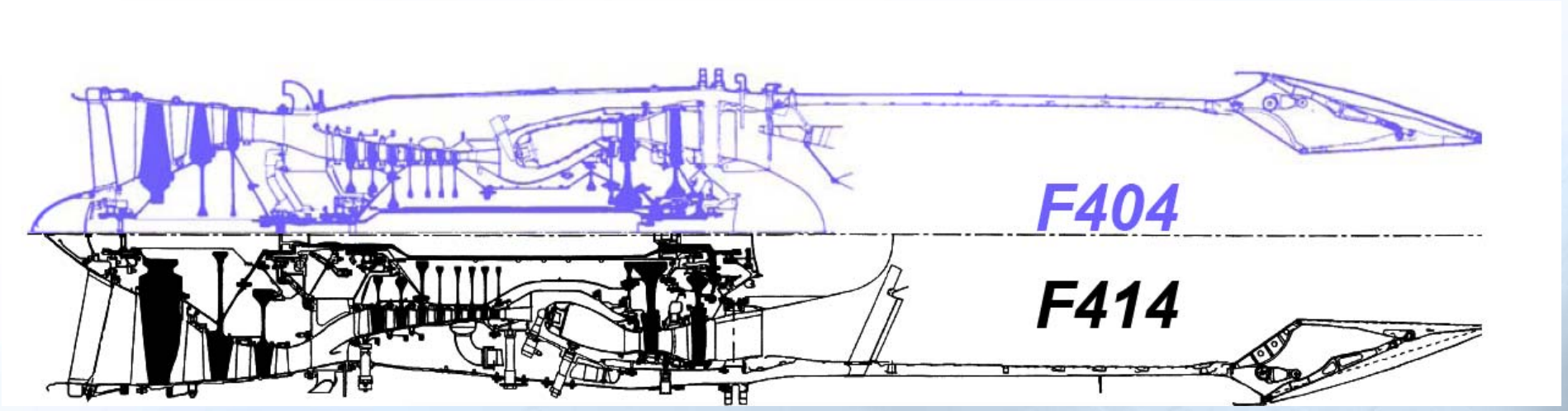

SHI 2 - Average TOW
Engine Hours
600
550
500
450
400
350
300
502
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Months


SHI 3 - Average Potential TOW
Engine Hours
1400
1200
1000
800
600
400
200
0
734
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Months

Questions?

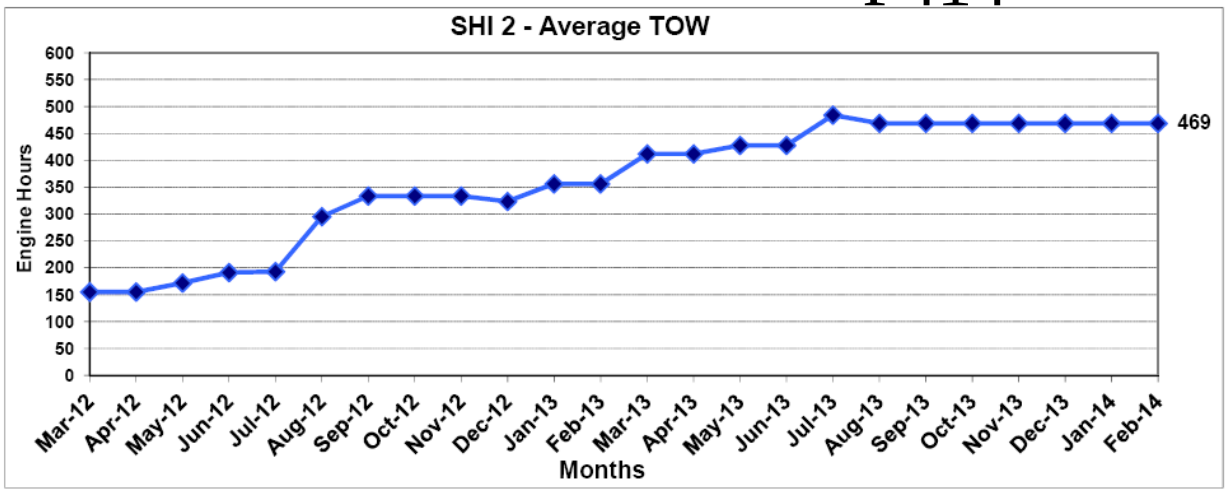
CoA POC: Mr Greg Turner

(02) 4034 5870



Back up slides

F414


SHI 2 - Average TOW
Engine Hours
600
550
500
450
400
350
300
250
200
150
100
50
0
469
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
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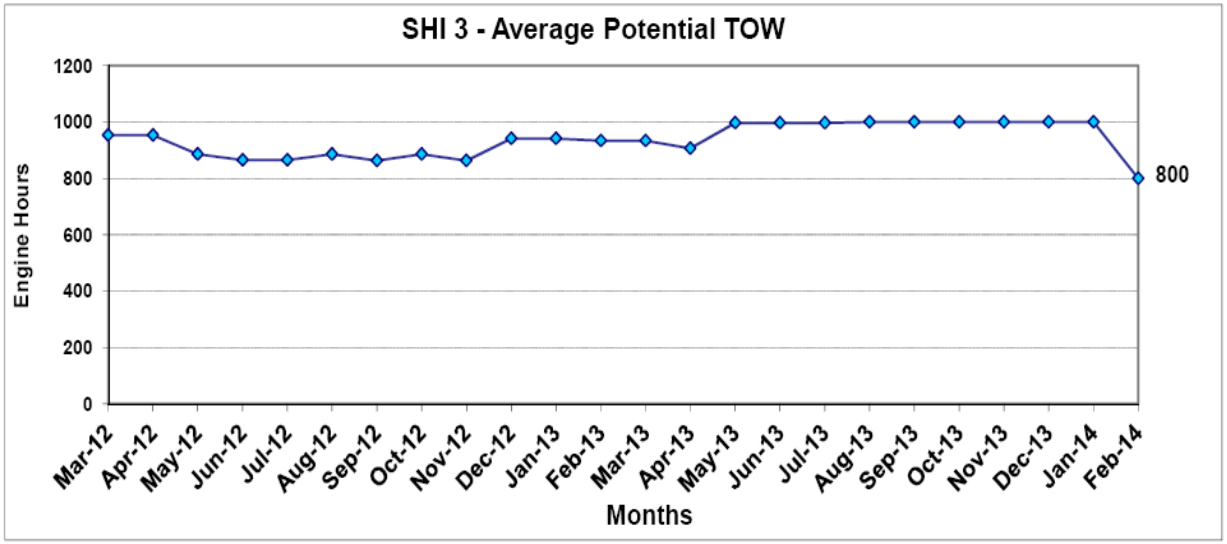
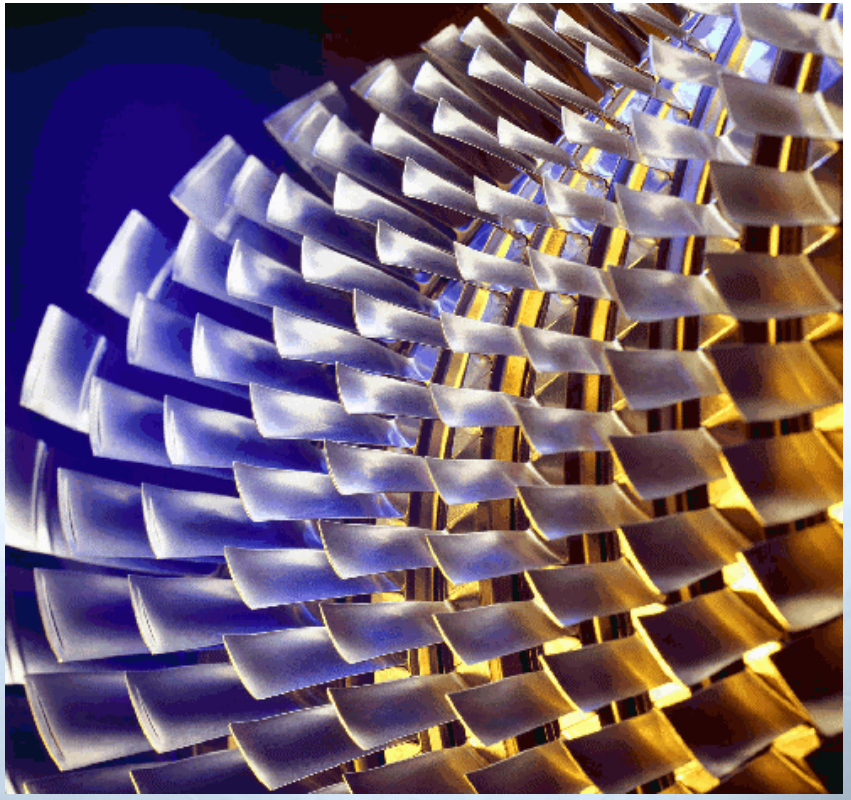
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Months


SHI 3 - Average Potential TOW
Engine Hours
1200
1000
800
600
400
200
0
800
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Months

Contract management

- The GE contract is managed by 2 Commonwealth employees.
- An effective TLS contract has resulted in efficiencies in contract management.
- While this contract is a multi-SPO contract, management resides with TFSPO with ACEASPO only providing financial assistance and very limited engineering direction.



TLS Enterprise

(shared)

- OM / Flight Line Maintenance
- Flight Configuration
- Mission Requirements & Execution
- O level Tech Support
- Training
- Fly-away kit Planning

- All Spares/Material
- Forecasting
- Depot Scheduling
- Worldwide Transportation
- Fleet Planning
- Support Equipment
- Containers
- Warehousing
- Work-scoping
- Inventory Control
- Inventory Rpt'ng
- Tech Data / Pubs
- Engineering
- Life Management
- System Safety
- Config Control
- SE Repair
- Training
- IM Labor
- DM Labor
- **Component Repair**
- **Engine/Module Repair**
- Uninstalled Eng Test
- **AEO (Eng Certs)**
- **AMO (Maint Certs)**
- Life Tracking
- Plant Facilities
- Plant Equipment
- Test Cell Maintenance

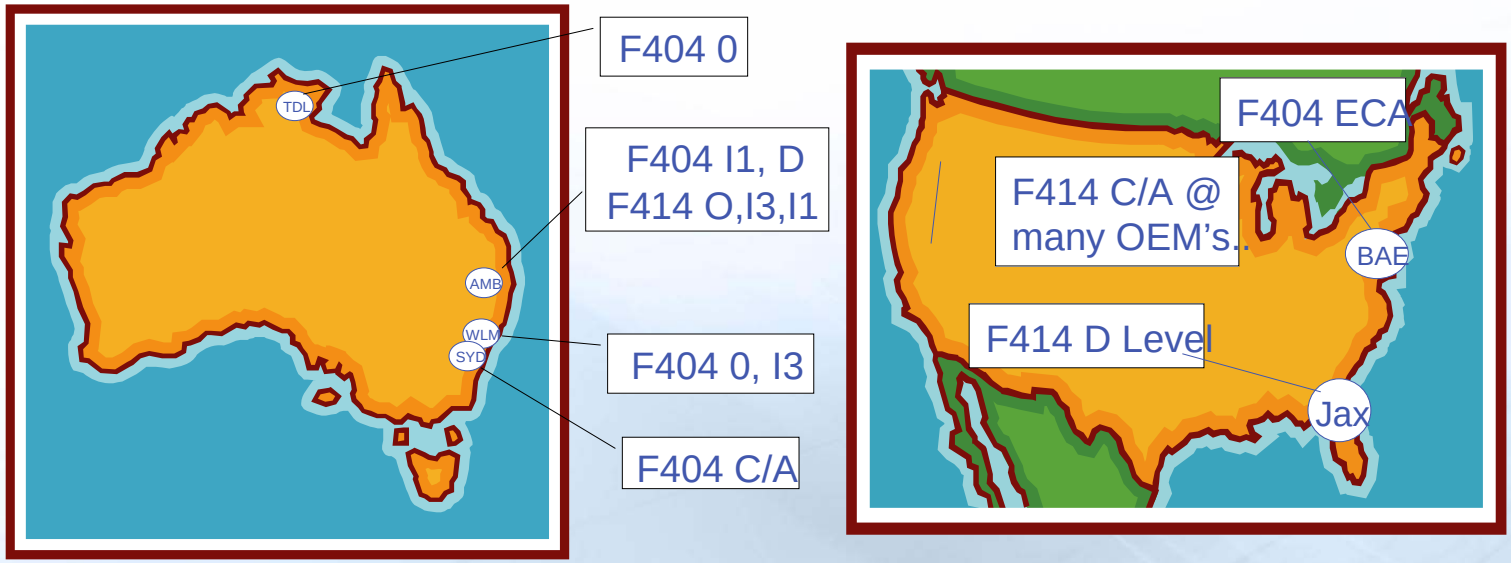
GE Footprint

F414-GE-400 Engine

- Intermediate Maintenance @ Amberley
- Deeper Maintenance @ US Navy (Jax)
- Controls @ OEM's

F404-GE-400 Engine

•Intermediate Maintenance @ Williamtown
•Deeper Maintenance @ Amberley
•Controls @ Sydney Aust.



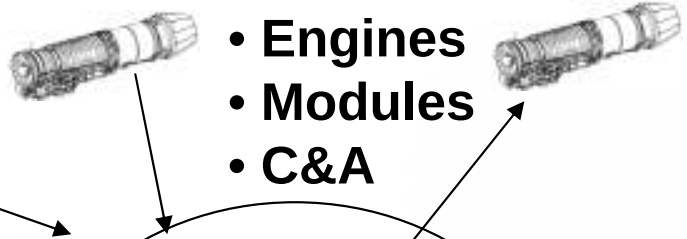
F404 Maintenance and Logistics

Tindal O-Level

- Engines
- C&A

Williamtown O & I Level

- Engines
- Modules
- C&A



Amberley Depot

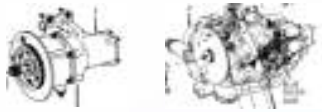
- Modules
- Components
- C&A

Engines

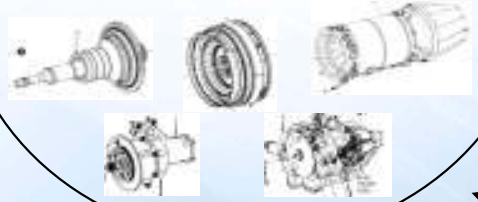
Modules

Components

C&A

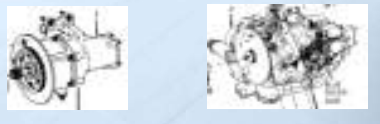


C&A

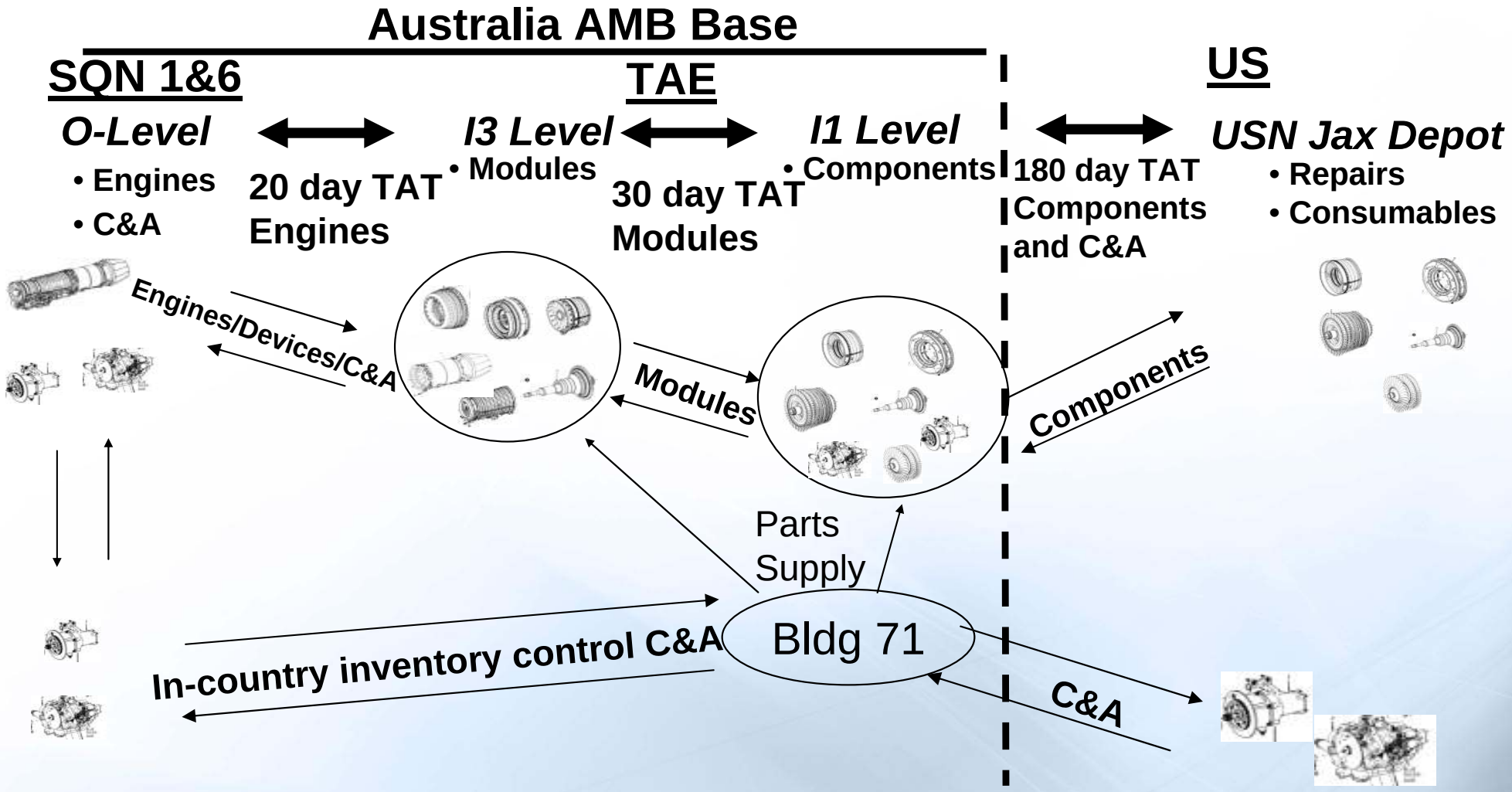


C&A

C&A Goodrich AU



F414 Maintenance and Logistics



Training

- There is 1 FLTLT engineering position imbedded in TAE to gain industry experience and achieve a Design Engineer qualification within 3 years.
  - This position is essential in maintaining RAAF engineering experience.
- GE also provides a number of training packages to maintain the RAAF engine experience and corporate knowledge.
  - A Troubleshooting course is run by the GE FSR.
  - A Borescope course is run by TAE with GE FSR input and guidance.