

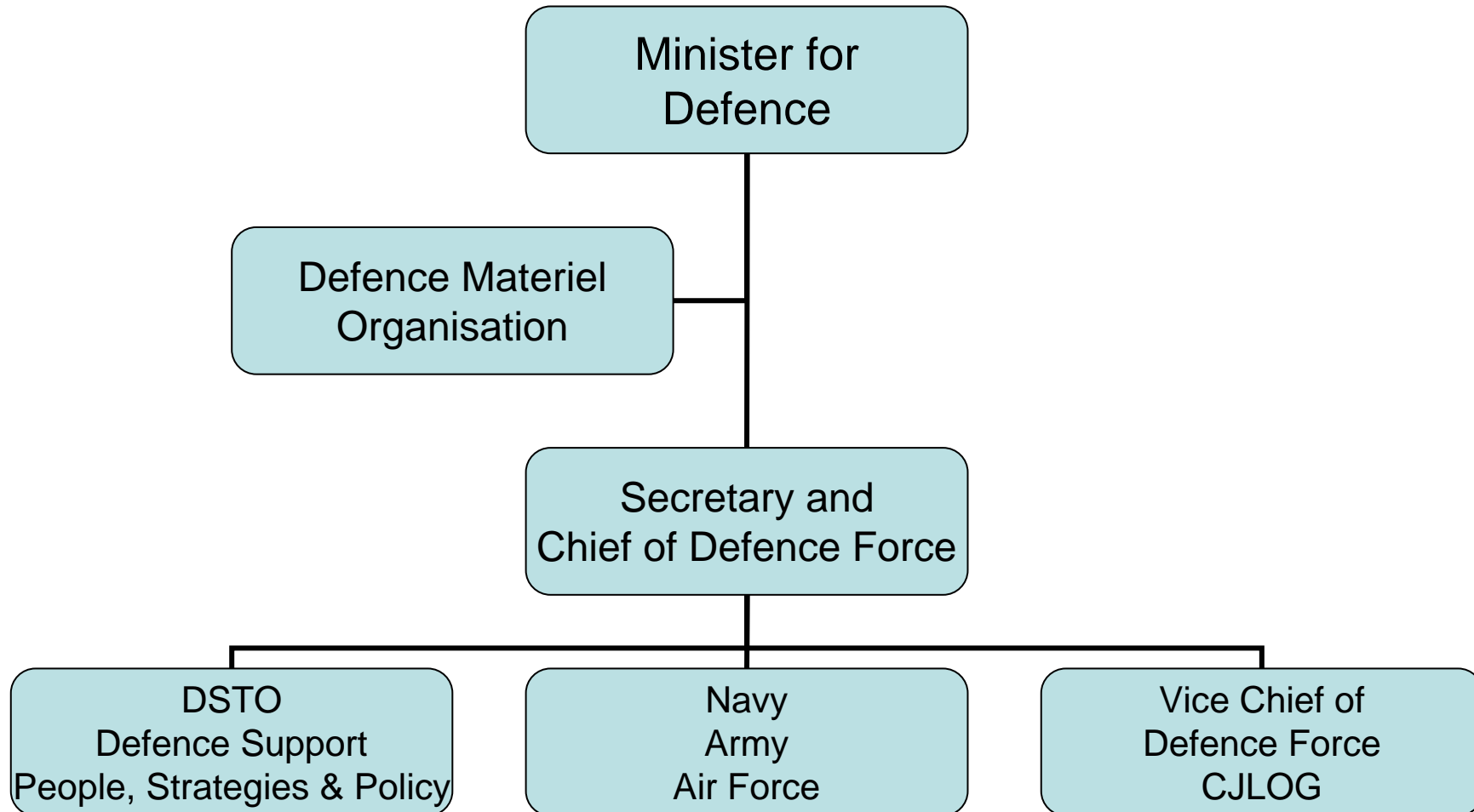


ARPANSA LICENCE HOLDER FORUM 12 JUNE 2008

DEFENCE MOVES TOWARDS
BEST PRACTICE



DEFENCE ORGANISATION AT A GLANCE



Leading Defence Logistics



MAP OF DEFENCE LOCATIONS



Leading Defence Logistics



DEFENCE LICENCES AT A GLANCE



- One Source Licence
 - S0042 (Corporate dealings)
- Five Facility Licences
 - F0116 – RADIAC CALCEN
 - F0166 – Linear Accelerator
 - F0084 – Waste Storage Facility
 - F0113 – Waste Storage Facility
 - F0117 – Waste Storage Facility
- Inventory managed with paper-based SIW



DEFENCE'S RISK PROFILE



- Industrial X-ray (NDT and XRF)
- Class 3B/4 Lasers (range finding and target illumination /designation)
- Sealed sources in laboratories
- Medical and Dental X-ray
- UV sources (NDT and sterilisation)
- Unsealed sources (inc. tritium)
- Magnetic benches (NDT)



RADSAFE ORGANISATION PRE-2008



- Radiation Safety (RADSAFE) managed as OHS issue
- 'safe person' philosophy
- OHSC Branch responsibilities:
 - Coordination role only
 - Develop Corporate policy
 - Facilitate ARPANSA inspections
- Group and Service (GRP/SVC) Heads responsible for management of own RADSAFE compliance & policy
- Defence /ARPANSA Liaison Forum (DALF) to coordinate compliance across Defence
- Defence Radiation Safety Committee (DRSC) to coordinate policy and info management
- No assurance function



BULIMBA TRITIUM INCIDENT



- Tritium widely used as a radio-luminescent light source in military equipment (aka GTLD)
- Bulimba had repaired GTLDs since 1970's
- Risks of tritium contamination thought to be low based on activity of HT (gas) form
- Contamination surveys of work surfaces conducted 2003 revealed build-up of tritiated phosphor (solid) and HTO (liquid)
- Following media scare in 2007, Minister ordered hi-level review of Defence policy and procedures



ORME TRITIUM REVIEW



- Review of tritium safety in Defence by FASPD revealed wider weaknesses in existing OHS-based RADSAFE management
- Experts in Defence, QHSS & ARPANSA advised that tritium presented insignificant risk if personnel adhere to simple precautionary measures
- Evidence found of ignorance, complacency and poor work practices over prolonged period
- Dose received by Bulimba workers was insignificant
- 21 Recommendations were accepted by Minister and implemented through special working group



KEY RECOMMENDATIONS



- CJLOG to be Single Point of Accountability between Defence and ARPANSA for RADSAFE
- Establish Directorate of Radiation Safety and Assurance (DRSA) in LA Branch with mandate to manage Defence compliance with ARPANSA and assure SEC/CDF that they are meeting licence obligations
- Defence to work with ARPANSA towards more effective, higher level, bi-lateral relationship
- Source inventory management is critical - 100% muster of controlled sources required to validate Defence Radiation Source and Facility Inventory (DRSFI)
- Improve work practices and incident reporting
- Provide advice to current and former employees



RADSAFE ORGANISATION 2008



- RADSAFE is now a Strategic Logistics function with CJLOG (STRAT J4) as Single Point of Accountability
- 'safe object' philosophy (congruent with logistics)
- DRSA (LAB) responsible for Corporate policy
- DRSFI to take over from SIW as inventory management tool
- GRP/SVC Heads responsible to CJLOG (RADSAFE)
- DALF moving towards Hi-Level forum (CEO /CJLOG)
- RADSAFE Assurance and Compliance (RSAC) to coordinate /disseminate action within GRP/SVC
- DRSA to coordinate ARPANSA inspections and follow-up on behalf of CJLOG
- Closed loop assurance function via internal inspection



QUESTIONS?