















ARPANSA LICENCE HOLDERS FORUM TY MANAGEMENT AND RI

SAFETY MANAGEMENT AND RISK ASSESSMENT IN DEFENCE

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Navy 14,215 2,150 **16,365**

Army 30,235 16,900 **47,135**

Air Force 14,573 2,800 **17,375**

Total 59,023 21,850 80,873

20,656 civilian Australian Public Service (APS)



That's over 100,000 controlled persons!



SEC/CDF VCDF DEFENCE NAVY ARMY RAAF DEFENCE SCIENCE DEFENCE AND SUPPORT MATERIEL TECHNOL ORGANISA OGY TION ORGANISA AUSTRALIAN JOINT JOINT TION DEFENCE LOGISTICS HEALTH **FORCE COMMAND COMMAND ACADEMY JOINT OPERATIONS**





Defence Licence Structure

Single Source Licence

- 227 NSN types
- 63,738 items
- 1229 SCA /Wh sites
- 58 geographic sites





Four Facility Licences

- Calibration
- Waste Storage x 2
- Industrial Radiography



Schedule 1 21 Kinds of Controlled Apparatus & Controlled Material in 2 Groups



Group	Item	Kind of Controlled Apparatus and Controlled Material
Group 1	1	Sealed source for calibration purposes of activity ≤ 40 MBq
	2	Sealed source in a fully enclosed analytical device
	10	Conventional dental x-ray unit
	13	Fully enclosed x-ray analysis unit
	14	Baggage inspection x-ray unit
	15	Mobile or portable medical x-ray unit
	16	Magnetic field non-destructive testing device
	17	Induction heater or induction furnace
	19	Radiofrequency plasma tube
	22	Optical source, other than a laser product, emitting ultraviolet
		radiation, infrared or visible light
	23	A laser product with an accessible emission level > Class 3R
	g	Sealed source for training & education purposes activity ≤ 40 MBq
Group 2	25	Sealed source for calibration purposes activity > 40 MBq
	26	Sealed source in a partially enclosed analytical device
	28	Sealed source in a mobile gauge
	33	Industrial radiography x-ray unit
	34	Fixed medical x-ray unit, including a unit used for fluoroscopy,
		tomography and chiropractic radiography
	35	Partially enclosed x-ray analysis unit
	d	Mobile fluoroscopic x-ray apparatus
	h	Sealed source for training & education purposes activity > 40 MBq
	n	Orthopantomogram (OPG) dental x-ray unit



Logistics Lifecycle

MAINTENANCE AND DISPOSAL (DMO/JLC)





ACQUISITION (DMO) mostly!





What could go Wrong?





Loose visibility of Defence Dealings as a whole

Governance Model based on Centralised Authority



Radiation Governance Model

- Accountability Commander Joint Logistics delegated as the Single Point of Accountability for the radiation sources and facilities domain
- Coordination Director General Logistics Assurance delegated as the Single Point of Coordination with ARPANSA and solely authorised to make applications
- Policy Defence Radiation Safety and Assurance delegated to manage corporate radiation safety policy under logistics /licence regime



Radiation Governance Model

- DALF Defence ARPANSA Liaison Forum established to facilitate strategic level communications
- DRSAC Defence Radiation Safety and Assurance Committee established to oversee radiation safety using 1 Star/SES Band 1 Nominees from G/S
- IR/NIR SC separate ionising and non-ionising radiation safety committees established to facilitate inter-group communications and policy development



Chance for differing standards, rules and procedures across Australia

Compliance and Assurance Model based on Central Coordination and Regional Implementation



Compliance and Assurance

- External Guidance
 - IAEA, ICRP, ICNIRP
 - ARPANSA Legs
 - ASNO, RET, Comcare, etc
- Corporate Defence Policy
 - RADSAFE Policy Statements
 - RSMS (and G/S level RSMPs)
 - RMP (Individual hazards)
 - Defence RADSAFE Manual



Compliance and Assurance

- Assurance Inspections
 - Risk managed (greatest hazard gets closest scrutiny over 1-5 yr period)
 - Hazard map (sources listed by site and quantity in ARPANSA categories)
 - Inspection Checklist (conformance with corporate policy and procedure)
- Reporting
 - Weekly/Monthly internal reports to SPA/VCDF
 - Quarterly external reports to ARPANSA



Inability to efficiently manage controlled inventory across Australia

Single Licence Logistic Management Model



Logistics Management

- Single Source Licence
 - Centralises compliance management
 - Eliminates wasteful inter-licence transfers

DRSFI

- Allows DRSA to view inventory across entire portfolio
- Works seamlessly with enterprise level inventory management system (MILIS)
- Audited by ANAO

ESCM

- Unity of rules and procedures for operators
- Common standards for inventory management



Questions ?

DRSA Website:

http://intranet.defence.gov.au/jlc/sites/DGLA/comweb.asp?page=32702