



AUSTRALIAN GOVERNMENT

AUSTRALIAN DEFENCE STANDARD

DEF(AUST)1000C

Dated 01 October 2003

ADF PACKAGING;

STANDARD

**PART 10: AUSTRALIAN
QUARANTINE INSPECTION
SERVICE (AQIS) REQUIREMENTS**

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Update AQIS, LSD & Aerospace Web URL's			

**AUSTRALIAN DEFENCE STANDARD
DEF(AUST)1000C
ADF PACKAGING
PART 10: AUSTRALAN QUARANTINE INSPECTION
SERVICE (AQIS) REQUIREMENTS**

OCTOBER 2003

Prepared by the ADF Packaging Committee under the Authority of the Defence Standardisation Materiel Committee.

Specific inquiries regarding the application of this Standard to Requests for Tender or contracts should be addressed to the Procurement Authority named in the Request for Tender, or to the Quality Assurance Authority named in the contract, as appropriate.

WARNING

This Standard may call for use of substances and test procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and in no way absolves either the supplier or user from statutory obligations relating to health and safety at any stage of manufacture or use.

DEF(AUST)1000C is issued in 20 parts, with each part sub-divided into Sections. The 20 parts are:

- | | |
|----------|---|
| PART 1: | General Information ¹ |
| PART 2: | Packaging Requirements ¹ |
| PART 3: | Packaging Practices and Materials ¹ |
| PART 4: | Standard Packaging Test Procedures ¹ |
| PART 5: | Marking of Packages ¹ |
| PART 6: | Packaging of Dangerous Goods (Except Dangerous Goods Class 1);
Packaging Requirements and Packaging Mediums ¹ |
| PART 7: | Packaging for Materiel Susceptible to Damage by Electrostatic Discharge ¹ |
| PART 8: | Defective Packaging Reporting System ¹ |
| PART 9: | Requirements for Reusable Containers ¹ |
| PART 10: | Australian Quarantine Inspection Service (AQIS) Requirements ¹ |
| PART 11: | Unitisation ¹ |
| PART 12: | Bar Code Symbolology ¹ |
| PART 13: | Packaging Material Catalogue |
| PART 14: | Minimum Packaging Specifications of Commercial Items ¹ |
| PART 15: | Packaging Specifications and Classification Systems ¹ |
| PART 16: | Creative Brief Template |
| PART 17: | Packaging ILS Checklist |
| PART 18: | Life Cycle Analysis |
| PART 19: | Caching |
| PART 20: | Techniques for Deployment, Packaging and Storage for Tropical Conditions |

¹ Denotes available at http://www.defence.gov.au/dmo/lsd/standards/def_aust_1000.cfm

Two or more parts may apply to any one packaging requirement and it is essential that all parts be considered and used where appropriate.

This Standard does not apply to the packaging of ammunition and explosives (for packaging information refer to Guided Weapon and Explosive Ordnance Branch [GWEO]).

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INTRODUCTION

- 1.1 In recent times the ADF has been deployed, with equipment, to many foreign countries. On a number of occasions, failure to comply with AQIS regulations has resulted in problems and delays for the return of equipment to Australia at the completion of the deployment. If the equipment (and its associated packaging) is not properly treated or cleaned this could lead to unwanted pests arriving into Australia, potentially having an adverse effect on the Australian environment.
- 1.2 In particular, the use of wood, foam, rubber and other packaging products can create problems on the return to Australia from deployment, repair, servicing and maintenance.

2. SCOPE

- 2.1 PART 10 details the Australian Defence Organisation (ADO) procedures and processes that need to be followed when equipment (and its associated packaging) is deployed to and returned from overseas to ensure conformance to AQIS regulations. It is also to be used as a guide for project staff who have equipment that requires repair, servicing or maintenance in an overseas country.

3. PURPOSE

- 3.1 The purpose of part 10 is to provide information to project officers and users relating to the AQIS regulations for return of equipment (and its associated packaging) from overseas. Adherence to this instruction in relation to cleaning and treatment of equipment will ensure appropriate AQIS certification is obtained. Failure to abide with these guidelines will cause delays and possibly destruction of the equipment and/or its associated packaging.

4. APPLICABLE DOCUMENTS

- 4.1 Reference may be necessary to the latest issue of the following documents:

4.1.1 Australian Department of Defence

- 4.1.1.1 DEF(AUST)1000 – ADF Packaging: Part 20 Techniques for Deployment, Packaging and Storage for Tropical Conditions (Section 1, Chapter 6)

Available from the following URL:

<http://vbmweb.sor.defence.gov.au/SPECS/Triservice/tritoc.htm>

- 4.1.1.2 Land Warfare Procedures – General LWP-G 4-0-4: Cleaning and Inspection Procedures – Military Equipment and Personnel Returning to Australia

Available from the following URL:

<http://adel2.defence.gov.au:8087/index.html>

- 4.1.1.3 Defence Instruction (General) ADMIN 46-1: Quarantine

4.1.2 Australian Quarantine and Inspection Service

4.1.2.1 Publications:

- 4.1.2.1.1 Wood packaging certification scheme for Australian exports (ISPM15)

Available from the following URL: <http://www.daffa.gov.au/aqis/export/timber/ispm15>

- 4.1.2.1.2 Importing timber and wood packaging to Australia

Available from the following URL:

<http://www.daffa.gov.au/aqis/import/timber>

- 4.1.2.1.3 Cargo Containers: Quarantine Aspects and Procedures
Available from the following URL:
<http://www.daffa.gov.au/aqis/import/cargo/aspects-procedures>
- 4.1.2.1.4 Australian Defence Force Military Equipment & Personnel - Guidelines for Offshore Inspection
Available from the following URL: <http://www.daffa.gov.au/aqis/avm/military/adf>
- 4.1.2.1.5 AQIS guidelines- Cleaning Instructions Personal Equipment for Australian Defence Force
Available from the following URL:
<http://www.daffa.gov.au/aqis/avm/military/personal>
- 4.1.2.2 **AQIS Import Conditions** (*users of this document in electronic format may click on the commodity name eg. Machinery to be taken to the relevant AQIS Condition*).
- 4.1.2.2.1 Machinery - New or used refurbished and/or re-conditioned aircraft parts and components
- 4.1.2.2.2 Machinery - New machinery including spare parts (not agricultural)
- 4.1.2.2.3 Machinery - Used machinery including spare parts not used in rural context or in contact with soil
- 4.1.2.2.4 Machinery - Used passenger vehicles, used road vehicles including spare parts (non-agricultural)
- 4.1.2.2.5 Military foods and biologicals
- 4.1.2.2.6 Wood packaging and dunnage (New Zealand)
Wood packaging and dunnage (New Zealand excepted)
- NOTE:** The URLs of the AQIS Conditions above may be found by performing searches with either “aircraft parts”, “military” or “dunnage” entered as the commodity name on the AQIS web site:
<http://www.aqis.gov.au/icon/asp/homecontent.asp>
- 4.1.3 **Standards Australia**
- 4.1.3.1 AS 1604 Timber preservative Treated Sawn and Round
- 4.1.3.2 AS 1605 Methods for Sampling and Analysing Timber Preservatives and Preservative-Treated Timber
- Copies of the above documents can be obtained from:
Standards Australia
286 Sussex Street
Sydney NSW 2000
For Defence personnel only: Standards Australia documents are available from the Defence Library Service at the following URL:
<http://library.dcb.defence.gov.au/standards/standards.nsf>

5. REQUIREMENTS

5.1 Considerations for deployment and equipment returning from deployment

5.1.1 Wood

5.1.1.1 If wood products such as pallets, packaging, bracing, dunnage and forklift skids under containers etc, are to be used on deployment, under AQIS regulations the wood will be required to be inspected on arrival and possibly treated or destroyed. Therefore consideration should be given to alternative products such as steel, aluminium, fibreboard, plastic etc. If wood is essential to the deployment the one way approach should be considered, taking into account the host country's environmental concerns if the wood is to be destroyed or discarded. For further information regarding the importation of timber packing, refer to the URL indicated in 4.1.2.1.2.

5.1.1.2 If there is a requirement for the wood product to be returned to Australia, the wood will either need to be treated or fumigated to AQIS requirements before departing the country of origin, or treated or destroyed on arrival in Australia. This process must be carried out by a recognised contractor (at a cost and considerable time delay at the point of entry with the added risk that the contents of the container may be damaged in the fumigation or fogging process).

5.1.1.3 For dunnage and bracing requirements during the deployment it will be necessary to take a supply of timber for this task with the expectation that the timber will be destroyed on return.

5.1.1.4 **International Standards for Phytosanitary Measures (IPSM-15).** The IPSM-15 Wood Certification Scheme has been introduced world wide for wood packaging materials and dunnage. As of 01 May 2006 AQIS has advised they have implemented the Wood Packaging Scheme IPSM-15 to signify that timber has been treated for export/import. AQIS has also advised the implementation of this policy require all timber products ie. case pallets and dunnage to be stamped with the IPSM-15 mark to indicate mandatory treatment either offshore or onshore for all solid wood packaging.

Further information on the International Standards for Phytosanitary Measures (IPSM-15) in contained in the following AQIS websites:

Australian Wood Packaging Certification Scheme (IPSM-15). This lists all Australian treatment providers and wooden packaging manufacturers who are certified under the scheme:

<http://www.daffa.gov.au/aqis/export/timber/register>

Notice 45, AQIS advice to Industry on Australian Wood Packaging Certification Scheme requirements:

<http://www.daffa.gov.au/aqis/export/timber/about>

IPSM-15, Solid Wood Packaging Country Implementation dates:

<http://www.daffa.gov.au/aqis/export/timber/implementation-dates>

5.1.2 Foam and Rubber Products

5.1.2.1 Consideration should be given to the use of only those foam products (eg vehicle, forklift, tow motor seats or cushioning in containers) that can be cleaned, as these products attract the ingress of dirt and seeds. Waterproof foam or medium to high-density closed cell foam should be considered. Guidance should be sought on the management of the product on the return from consignments and deployments

5.1.2.2 Generator sets and other like equipment that use foam or rubber as insulation or sound deadening, should be designed to make provision for easy removal of the foam for

cleaning or discarding on return from deployment. If the foam has been glued with an adhesive to the equipment, the equipment may be damaged during removal of the foam.

5.1.3 **Personal Equipment**

- 5.1.3.1 Defence Kit on issue (including unaccompanied personal effects) are to be cleaned to AQIS requirements, to insure that clothing and kit is free from dirt and plant matter (seeds, grass, etc). Left over items from ration packs are to be disposed of appropriately and not left in webbing, bags etc, before returning to Australia. Detailed information can be found on the AQIS website: www.aqis.gov.au/military
- 5.1.3.2 Detailed cleaning instructions for personnel equipment are detailed in Chapter 3 of LWP-G 4-0-4: Cleaning and Inspection Procedures – Military Equipment and Personnel Returning to Australia and AQIS document Military Equipment and Personnel: Guidelines for Offshore Inspection. 4.1.2.1.4

5.2 **Considerations for Projects**

- 5.2.1 Project managers should be aware that if equipment needs to be sent overseas for maintenance or repair, the use of wood and foam for packaging and containers should be avoided if possible, because the use of wood can cause major problems on return to Australia (refer paras 5.1.1.1 and 5.1.1.2). For ease of conforming to AQIS regulations it may be worthwhile considering Special-To-Contents-Containers manufactured from plastic, aluminium, fibreglass or other acceptable materials that will accompany the equipment or component for its entire life cycle.
- 5.2.2 For unique designed military equipment (as distinct from commercially adapted equipment) advice should be sought from AQIS at the design or prototype stage of the project. This advice may avoid the unnecessary creation of nooks and crannies that attract soil and other unwanted material, and so will aid in the cleaning of equipment for returning to Australia from deployment. The cleaning of equipment from an overseas deployment is a time consuming task, especially if the equipment has to be dismantled prior to the cleaning process. The availability of water in the country of a deployment may be limited and may not be available for cleaning of equipment.

5.3 **Cleaning and Inspection Procedures**

- 5.3.1 For detailed advice and guidance on cleaning and inspection procedures for military equipment and personnel returning to Australia refer to the following documents:
 - 5.3.1.1 Army Land LWP-G 4-0-4, Cleaning and Inspection Procedures – Military Equipment and Personnel Returning to Australia is available from the Australian Department of Defence Web site URL, listed at para 4.1.1.2
 - 5.3.1.2 AQIS document, Military Equipment and Personnel: Guidelines for Offshore Inspection, available from AQIS Web site URL listed at para 4.1.2.1.4

5.4 **Aircraft Parts and Components**

- 5.4.1 The conditions AQIS will impose on the importation of aircraft parts and components are contained at the AQIS URL in Para 4.1.2.2.1. However, the provision of low risk quarantine packing containers eg, similar to the plastic moulded MINIMI case, would assist to expedite the AQIS clearance of the aircraft parts on arrival back into Australia.

5.5 **ISO Containers**

- 5.5.1 If ISO containers are used for transporting materiel, all seals on the containers should be checked as faulty seals will allow the ingress of unwanted pests and material. The containers should also checked for rust, as the rust will harbour unwanted material.

5.6 AQIS Advice and Involvement

- 5.6.1 AQIS advice and involvement should be sought on deployment, forwarding, return and extraction of materiel from overseas countries. This can be arranged direct through the AQIS Machinery and Military NCC, or through HQ1JMOVGP. Detailed advice on preparation of materiel for entry into Australia can be found on the AQIS website using the hyperlinks indicated in para 4.1.2.1. Enquiries should be directed to the AQIS Machinery and Military NCC – Contact information is detailed in ANNEX A, Table 1
- 5.6.2. Staff of projects involved with equipment that may be used for deployment overseas, or equipment that is to be packaged to go overseas for maintenance, should obtain advice from AQIS personnel at the requirements, design and prototype stages.
- 5.6.3 Points of contact for AQIS are detailed in ANNEX A.

5.7 Equipment Cleaning Guide A-Z refer ANNEX B

6. INQUIRIES AND AMENDMENTS

6.1 General inquiries and suggested amendments to this document should be addressed to:

Assistant Program Coordinator
Army Standardisation
Land Engineering Agency
3rd Floor, Defence Plaza Melbourne
661 Bourke Street
MELBOURNE

VIC

3000

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ANNEX A

AUSTRALIAN QUARANTINE INSPECTION SERVICE (AQIS)

1. Inquiries to Australian Quarantine Inspection Service (AQIS) regarding general import and inspection requirements, or specific military equipment may be directed to the addresses below:

Machinery and Military National Coordination Centre

AQIS

PO Box 222

Hamilton QLD 4007

Telephone: (07) 3246 8706

Fax: (07) 3246 8785

Email: aqis.military@aqis.gov.au

2. For information on general ADF operational procedures within ports, enquiries should be directed to the relevant Joint Movements Group Office below:

HQ1JMOVGP

Ph: +61 2 9377 2581

Fax +61 2 9377 2592

POC for ADF Exercises SO2 Plans

Ph: +61 2 9377 2581

Mobile 0418687461

Fax: +61 2 9377 2592

After Hours: 0411 236 810

Joint Movement Control Officer (JMCO) Darwin

OC Ph: 08 8935 7651

OPSO Ph: 08 8935 6976

OPSWO Ph: 08 8935 6952

After hours: Duty Officer 0419141820

Fax 08 8935 6971

JMCO- Townsville

OC Ph: 07 4771 7789

Mobile 0419 723 618

21C Ph: 07 4771 7612

Mobile 0408 021 986

OPSWO Ph: 07 4771 7772

Fax 07 4771 7090

After Hours 0411 031 937

JMCO-Brisbane

21C Ph: 07 3332 6697
OPSWO Ph: 07 3332 7328
Fax 07 3332 7242
After Hours 0419 684 128

JMCO-Sydney

OC Ph: 02 8745 7735
21C Ph: 02 8745 7737
OPSWO Ph: 02 8745 7738
Fax number 02 8745 7700
After hours 0409 990 403

JMCO-Melbourne

21C Ph: 03 9450 7028
OPSWO Ph: 03 9450 7026
Fax number 03 9450 7021
After hours 0418 388 367

JMCO-Adelaide

21C Ph: 08 8305 6518
OPSWO Ph: 08 8305 6522
Fax number 08 8305 6110
After hours 0411 236 820

JMCO-Perth

21C Ph: 08 9383 6328
Mobile 0407264485
OPSWO Ph: 08 9383 6254
Fax number 08 9383 6320
After hours 0408 935 502

3. In overseas countries information may be obtained through offices of AUSTRADE, which are associated with Australian Diplomatic Missions.
4. The following URL is the link to the AQIS web site: www.aqis.gov.au

5. The following URL is the link to the AQIS Import Conditions Database, which provides information on the import conditions of various commodities. The information includes inspection, mandatory treatment or minimal entry requirements, and advice on whether a permit is required. www.aqis.gov.au/icon
 - To see Public Alerts advising of new arrangements or changes to import conditions select the “Alert” tab
 - To find the import conditions on over 20,000 commodities select the ‘search’ tab type in the commodity eg ‘timber’ and enter.

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ANNEX B

EQUIPMENT CLEANING GUIDE A-Z

GENERAL

1. The aim of the AQIS inspection is to ensure that all equipment is free from soil, plant, insect and animal matter (Quarantine Risk Material [QRM]). Cleaning and inspection time will largely depend on the amount of equipment to be inspected and the standard to which it has been cleaned. Equipment that has not been cleaned correctly will be rejected and not allowed entry into Australia.
2. This ANNEX provides basic and specific cleaning requirements for selected vehicles and equipment types. More specific cleaning guides are contained in the Army Land Warfare Development Centre Document, Land Warfare Procedures – General LWP-G 4-0-4: Cleaning and Inspection Procedures – Military Equipment and Personnel Returning to Australia.
3. The following paragraphs detail equipment that has been identified as having specific cleaning requirements or where AQIS has observed that there may be some specific cleaning difficulties. Where detailed, these points are additional cleaning requirements to the basic cleaning process. Where items are of a nature that precludes the use of water, they are to be air-blown and brushed or wiped clean.
4. This guide is not designed to be definitive, but rather seeks to provide guidance on the cleaning of general stores and equipment. Guides should be used and applied to the appropriate equipment as necessary to achieve the AQIS cleaning requirement.

NOTE: AQIS Policy for cleaning is to “clean as new”.

A

Airconditioning

5. The following areas should be checked:
 - a. Airconditioning filters are to be removed and cleaned or subject to disposal; and
 - b. All cooling veins or fins are to be cleaned with high-pressure air or picked clean as necessary to remove seed, plant and insect matter.

Aircraft (fixed wing)

6. All aircraft stripping for AQIS cleaning and inspection is to be carried out and supervised by authorised aircraft trades persons only. Under no circumstances are pressured air or water cleaners to be used on aircraft as these may damage aircraft components and instruments. The following points should be noted:
 - a. Chemical agents also damage aircraft components and are not to be used on aircraft fuselage or systems.
 - b. Cockpit and cabin areas are to be inspected for cleanliness and authorised vacuum cleaners may be used to remove foreign matter from these areas.
 - c. False flooring, matting and soundproofing is to be removed where possible and vacuumed.
 - d. Particular attention is to be paid to engine intakes and compartments, around aerofoil controls and transmission areas, debris guards (where fitted), wheels and landing gear bays/ compartments, access panels and cargo passenger doors.

- e. Cargo pallets are to be pressure washed and scrubbed, and
- f. On return to Australia, aircraft are to be externally washed using a maintenance approved facility.

7. See also 'helicopter'.

Air Filters

8. In general, air filters would require extensive cleaning to pass AQIS requirements. It may be more cost-effective to remove and replace them before returning to Australia.

Air Tank

9. Air tanks are to be loosened for cleaning. Condensation is to be drained from the tank.

Ammunition Boxes

10. The following areas should be checked:
- a. fumigation is required before or on return to Australia;
 - b. rope handles are to be cleaned as for ropes;
 - c. wooden boxes are to be stripped and dumped if heavily contaminated with soil; and
 - d. metal boxes are to be cleaned with water to remove all soil, plant and insect debris.

Ammunition Pouches

11. Refer to webbing.

Amphibious Vehicles

12. The following areas should be checked:
- a. clean as for vehicles;
 - b. high-pressure hosing required of hull to remove anti-fouling and all marine life;
 - c. troop and crew compartments, including the crew's personal clothing and equipment, are to be thoroughly cleaned; and
 - d. where these vehicles are washed down with salt water, they are to be subsequently washed down with fresh water to prevent any salt damage to any transporting vessel such as aircraft frames.

Animals

13. AQIS Canberra will advise all quarantine requirements for animals.

B

Battery/ Battery Compartments

14. Batteries are to be removed and cleaned underneath to remove all QRM. The battery box is to be cleaned of all QRM.

B Vehicles

15. The following areas should be checked:
- a. oil and grease residue areas are to be treated with degreaser before wash down with high-pressure water to ensure removal of soil, plant and insect matter;

- b. the cabin area is to be vacuumed and air-blown clean. Airconditioning units are to have filters removed, air vents are to be unscrewed and blown clean with high-pressure air. Torn seat cushions are to be removed and disposed of. All other cushions are to be cleaned to an acceptable AQIS standard;
- c. High-pressure air and dry paintbrush treatment is required to remove all QRM to clean dashboards. Dashboards may need to be disassembled to achieve AQIS requirements;
- d. all floor mats are to be removed and cleaned;
- e. lights are to be cleaned and any damaged lights removed to allow cleaning of the fitting to ensure there is no soil, plant or insect matter present;
- f. radiators are to be cleaned as for radiators;
- g. all vehicles are to be given a high-pressure water clean to remove all QRM;
- h. attention is to be given to cross members and areas where there is an overlap of metal without a seal or where soil, plant and insect matter can become caught. Removal of plates and panels, is the most effective way to access these areas for cleaning. Where this is not possible or is not practical, cleaning with flexible nozzle high-pressure water is to occur. Flushing of these areas should be continued until clear or clean water is seen exiting;
- i. interior cabin linings are to be removed to facilitate inspection. If these items are contaminated, then the local AQIS Officer should be consulted as to whether the linings can be brought to an acceptable AQIS standard;
- j. cable sleeves are to be flushed through using a flexible nozzle and high-pressure water until clear or clean water comes out. If satisfactory cleaning cannot be achieved, the cable sleeves should be removed
- k. spare wheels are to be removed for cleaning;
- l. mudflaps are to be removed and cleaned by high-pressure water;
- m. batteries are to be removed for cleaning;
- n. air filters are to be removed;
- o. broken lights and reflectors are to be removed and destroyed;
- p. all damaged mirrors are to be removed and the mirror holders cleaned
- q. tactical identification plates are to be removed from plate holders;
- r. damaged rubber seals are to be removed and cleaned;
- s. suspension air bags (where fitted) are to be fully extended and cleaned by high-pressure water;
- t. all Complete Equipment Schedule (CES) components are to be removed and cleaned;
- u. windscreen reservoirs, including piping, are to be emptied of water and flushed through with a chlorine solution.
- v. remove the side gates and headboard (where fitted) before cleaning;

- w. tilt the servicing plates and guards (where fitted);
 - x. the outer bogey wheels should be removed;
 - y. the winch and lifting cables are to be reeled out, degreased and given a high-pressure water clean, (it is essential that cables be re-oiled after cleaning);
 - z. remove all checker plates/timber flooring laminate (where fitted) for cleaning and inspection by AQIS and, if necessary, disposal;
 - aa. all bumper and brush guard hollows and attachment points are to be cleaned of all QRM; and
 - bb. all straps around air and fuel tanks should be loosened.
16. All cleaning of the above requires an operator to be present.

Backhoe

17. The following areas should be checked:
- a. clean as for vehicles, using degreaser as necessary;
 - b. tine fingers on buckets are to be removed to facilitate cleaning behind with high-pressure water;
 - c. rams are to be extended for cleaning; and
 - d. hydraulic lines are to be cleaned down.

Ballistic Vest

18. Refer to body armour.

Bayonet

19. Carrying pouches for these items are to be cleaned as for field packs and webbing. Bayonets are to be cleaned of all soil, plant and insect material and lightly oiled.

Bivvy Bags

20. Bivvy bags or swags are to be turned inside out and disassembled to ensure no soil, plant, insect matter or animals are trapped inside. Liners and other sleeping materials are to be given a wash and scrub with warm soapy water.

Bladder Boxes

21. The following areas should be checked:
- a. wooden boxes are to be cleaned as for wooden items;
 - b. all paper and plastic linings within these boxes are to be removed to allow inspection of the packing box; and
 - c. linings that are clean may be re-used.

SSL (Skid, Steer, Loader)

22. The following areas should be checked:
- a. cleaning as for vehicles; and
 - b. remove stabilisers and clean.

Body Armour

23. Plates are to be removed and cleaned as necessary to remove any soil, plant and insect matter. The cover or coat is cleaned as for clothing items, pay particular attention to the plate pocket, velcro (clean as for velcro), and overlapping cloth areas. Cleaning must be conducted in accordance with the manufacturer's instructions.

Bodywork

24. All damaged bodywork is to be checked and as necessary further inspection of cracks and damage may be required. Remove all QRM debris. Any floor or body strips/moulds that form lips where QRM matter may become trapped, particularly on vehicle floor compartments, are to be loosed.

Boots

25. Refer to footwear.

Box Metal Storage Shipping (BMSS)

26. The following areas should be checked:
- a. loose or flaking rust is to be removed and all stores, shelves unpacked scrubbed and washed out;
 - b. all external surfaces are to be washed and scrubbed with particular attention to the underside and any rail lips or crevices to remove earth, plant and insect matter. The walls of these containers are breathable and are not waterproof, insect or vermin proof; and
 - c. AQIS preferred option is for all box metal storage shipping to be shipped inside approved ISO containers.

Box Shipping and Storage Wooden and Packing Boxes

27. The following areas should be checked:
- a. purpose-built wooden boxes are to be dismantled and cleaned inside and out as for wooden items;
 - b. all boxes will be inspected before loading;
 - c. boxes will require fumigation treatment before or on return to Australia. Subject to availability of fumigation facilities AQIS preferred option is for fumigation to occur before returning to Australia;
 - d. damaged boxes will attract more stringent inspection and consideration of residual value should be assessed. AQIS preferred option is that damaged boxes are not returned to Australia; and
 - e. boxes should be sprayed with Permethrin before having stores placed back in them.

Buckets or Blades (Engineers)

28. The following areas should be checked:
- a. clean as for vehicles;
 - b. special attention is to be paid to quick connect hydraulic couplings.

- d. all cutting edges are to be removed and cleaned by high-pressure water;
- e. buckets and blades that are damaged are to have the damaged face section cut away, so that all soil ingress can be washed free by high-pressure hose.

Buckets or Handbasins

29. The following areas should be checked:
- a. to be scrubbed clean or, if unable to clean, items are to be disposed of; and
 - b. buckets and handbasins are to be referred to the on-site AQIS Officer to determine if further treatment (a chlorine or permethrin dip and fumigation) is required.

Bucket Multipurpose (Engineers)

30. The following areas should be checked:
- a. clean as for vehicles;
 - b. cutting edges are to be removed;
 - c. all removable tines are to be taken off and cleaned with high-pressure water hose;
 - d. blade edges are to be removed; and
 - e. hoses are to be cleaned down with degreaser and high-pressure water.

Bulldozer

31. The following areas should be checked:
- a. clean as for vehicles;
 - b. the cabin area is to be vacuumed and air blown clean. Airconditioning units are to have filters removed, air vents are to be unscrewed and blown clean with high-pressure air. Torn seat cushions are to be removed and cleaned to an acceptable AQIS standard or be disposed of;
 - c. remove rippers, blades and boots and clean with high pressure water, including attachment points;
 - d. lights are to be cleaned and any damaged lights removed to allow cleaning of the fitting to ensure there is no soil, plant or insect matter;
 - e. the radiator is to be air blown clean and, if necessary, hand picked clean of all seed and insect matter.
 - f. cutting edges are to be removed and cleaned with a high pressure cleaner;
 - g. the blade is to be inspected for any damaged face areas, cut out to ensure there is no embedded soil;
 - h. hydraulic rams are to be extended and cleaned;
 - i. hydraulic lines are to be wiped clean of all soil and fluid. Cable conduit is to be cleaned with high pressure water or removed;
 - j. rubber seals around doors and windows are to be cleaned to remove all soil, seed and insect matter.

- k. remove access panels and clean track area of all soil, plant and insect matter with high pressure water; and
- l. all track links are to be cleaned with high-pressure water, ensuring the area between each track link is thoroughly cleaned.

C

Cabling (communications and power)

32. Plastic coated cabling should be wiped down and all electrical tape and cable ties removed. Portions of cabling with damaged insulation are to be removed and disposed.

Cage Pallet

33. The following areas should be checked:
 - a. all open-ended corners and frames are to be cleaned of soil, plant, animal and insect matter;
 - b. the frames are to be flushed with water until clean water can be observed exiting the open end; and
 - c. AQIS preferred option is that these cages are to be transported inside ISO containers.

Camouflage Nets

34. The following areas should be checked:
 - a. Removal of grass and debris may be achieved by the use of a petrol powered blower vacuum in the first instance; use of water should be avoided;
 - b. Heavily soiled camouflage nets may require further scrubbing and a dip in an approved detergent/disinfectant (one in 20 solution). This has been achieved in the past by using trailers with required additive;
 - c. depending on the degree of contamination and diligence in the cleaning process, camouflage nets may require three or more trailer dips to achieve the required AQIS clearance;
 - d. drying is to be achieved by hanging the camouflage net so that it does not come into contact with the ground; and
 - e. nets are to be inspected to ensure that all plant material is removed.

Camouflage Poles

35. The following areas should be checked:
 - a. camouflage poles are to be brushed or swept clean; and
 - b. metal joiners are to be removed cleaned prior to inspection by AQIS officers.

Canopy

36. Canopies are to be removed and brushed down. High-pressure air is to be used as necessary to remove all quarantine risk material.

Canopy Bows

37. Canopy bows are to be disassembled and wiped or scrubbed with brushes and water as is necessary to remove all QRM. Particular attention is to be paid to locking catches, joints and hollow cross members to ensure all QRM, nests or other infestations are removed.

Complete Equipment Schedule

38. All CES items are to be removed from the parent equipment for cleaning.

Chassis General

39. The chassis is to be cleaned using flexible nozzle high-pressure water cleaning equipment. Particular attention is to be paid to small apertures which may act as reservoirs for QRM.

CAUTION

Do not drill any holes into any chassis structure.

Choofers

40. Refer to heater immersion.

Clothing

41. Clothing, which includes undergarments, hats, socks and any scarf-type item, is to be cleaned of all soil, burrs and plant material. All pockets should be unzipped or unfastened and turned inside out if possible to remove all debris. Clothing items are to be given a hot wash (for example, hot machine laundry or dipping in immersion heaters) before returning to Australia.

Commercial Vehicles

42. The following areas should be checked:

- a. clean as for vehicle; and
- b. stripping and cleaning these vehicles may not be cost-effective. The Australian Defence Logistic Manager should be consulted on the action to be taken when considering return of these vehicles. If vehicles are to be returned, they will need to be stripped and inspected on an individual basis.

Containers Cargo

43. The following areas should be checked:

- a. personnel should acquire an appropriately certified stand or 'flat rack' container to stack ISO containers on, so the underside can be given a high-pressure water clean;

CAUTION

Do not stand or walk underneath an elevated container as it may collapse.

- b. stepladders may be used to assist the cleaning of the roof of the containers and enable AQIS to inspect the container for cleanliness;
- c. AQIS will internally inspect the container to ensure it is adequately sealed;
- d. attention is to be given to the underside and twist lock area for the removal of soil, plant and insect debris;
- e. the inside of the container may need to be cleaned by high-pressure water;
- f. vents are to be sealed and the floor and walls are to be cleaned. They are then wet sprayed with a residual insecticide before being loaded and fogged once loading is complete and before sealing by AQIS;
- g. containers should be opened only in the presence of, and under the direct supervision of, an AQIS officer once cleaned and loading has begun;

- h. all shelving and equipment should be removed to ensure the container is empty; and
- i. remove plastic sleeve on the outer door.

Cots Folding

44. Refer to stretchers.

Crane Tadano

45. Refer to Tadano Crane.

Crazy Cage

46. Refer to cage pallet.

Cupola

47. Remove protective rubber and 'crash pad' if fitted to facilitate cleaning and inspection.

D

Defence Stores

48. The following areas should be checked:
- a. **Corrugated Iron.** New sheets are to be separated and cleaned and given a sheet by sheet inspection. Used sheets may not be cost-effective to clean to the required AQIS standard.
 - b. **Sandbags.** Used bags can not be economically reclaimed. Unused bags will require treatment as for hessian.
 - c. **Wire.** It is not considered cost-effective or practical to bring used wire to a satisfactory AQIS standard. Unused wire will require inspection.
 - d. **Star Pickets.** Star pickets will need to be inspected individually and treated as for corrugated iron.

Demountable Buildings

49. Demountable buildings will require extensive dismantling and removal of panel linings and insulation. It may not be cost-effective or practical to return these items to Australia. Further guidance on this matter should be obtained from superior headquarters and AQIS.

Digging Tools (Entrenching Tools, Hammers, Fire Rakes)

50. The following areas should be checked:
- a. remove covers;
 - b. tools are to be washed and scrubbed to remove all plant, soil and insect matter; and
 - c. canvas cover is to be given a brush.

Diver's Bag

51. Refer to echelon bag.

Don 10

52. Refer to see cabling (communications and power).

Drain Plugs

53. All drain plugs are to be removed to assist cleaning. Drain plugs and apertures must be cleaned of all QRM debris. Personnel must pay particular attention to threaded areas.

Duck Boards and Wooden Pallets

54. As fumigation and extensive cleaning is required for duckboards and wooden pallets, it is considered more cost-effective to dispose of these items.

Dynapack CT260 (Engineer)

55. See cleaning considerations for “Bulldozer”:

E

Echelon Bags

56. Echelon bags are to be turned inside out and all soil, plant and insect debris removed. The bag is to be given a ‘wipe clean’; however, if there is soil embedded into the fabric, it is to be scrubbed with brushes and water to remove the soil and allowed to air dry.

Electronic Repair Vehicle

57. Clean as for General Maintenance Vehicle.

Electrical Tape

58. Electrical tape, which has been used to secure items to webbing, is to be removed and destroyed, as this provides an ideal area for plant and soil particles to collect. Any adhesive residue is to be removed.

Entrenching Tool

59. Entrenching tools are to be cleaned of all soil, plant and insect material and lightly oiled. Carrying pouches for these items are to be cleaned as for field packs and webbing.

Equipment Bags

60. Refer to echelon bag.

F

Fan

61. Fan covers, blades and spindles are to be removed and cleaned.

Fibre Composite Components/Assemblies

62. When inspecting and cleaning fibre composite components/assemblies, particular attention is to be paid to the following;
- a. Damaged composite materials present a significant risk for carriage of soil, plant and insect material.
 - b. High-pressure cleaning processes may exacerbate damage and contamination risk.
 - c. Subject to the availability of repair procedures (via Australian Defence Force Logistic Manager), it is preferable to repair fibre composite components and assemblies prior to cleaning and inspection.

Fender Wells

63. Access areas for tail-light wiring and other fender apertures that may collect QRM debris are to be cleaned.

Field Service Tables

64. Tables are to be checked:
- a. clean as for wooden items or if metal topped high-pressure water clean; and
 - b. hollow legs if fitted are to be cleaned internally to remove all debris.

Filters (Water)

65. Water filters, including Millbank filters should be:
- a. turned inside out and scrubbed with brush and water; and
 - b. when the filter is a disposable type, it should be disposed.

Fire Beaters

66. The following action is to be taken:
- a. the canvas strips are to be cleaned by scrubbing with soapy water and the wooden handles subject to inspection and gas treatment as required;
 - b. canvas strips are to be turned inside out to allow full inspection; and
 - c. disposal of items in-country should be considered.

Fire Truck/Bulk Water Transporters

67. The following areas should be checked:
- a. clean as for vehicles;
 - b. tank and hose lines are to be flushed out with chlorinated water;
 - c. air filters are to be removed;
 - d. guard rails are to be removed to facilitate cleaning of attachment points to remove all soil, plant and insect matter; and
 - e. remove and clean behind wheel arch flares.

First Aid Dressing

68. Refer to shell dressing.

Fitted for Line

69. Clean as for Vehicles and Landrover. Additionally, cage and line recovery structures are to be cleaned as for caged pallet.

Footwear

70. Laces are to be removed from the footwear and all straps, velcro, zip or fast lace systems are to be thoroughly cleaned of burrs, plant, animal droppings and soil. Particular attention is to be paid to the area of the footwear around the tongue and fastening system where there is a fold in the footwear material that can allow plant, soil and insect material to collect. Where footwear is fitted with removable insoles, insoles are to be removed and brushed clean ensuring all quarantine risk material is removed. All types of footwear are to be cleaned of all soil, animal and plant material and, if necessary, given a water scrub and wash to achieve the desired standard and allowed to dry. It may be necessary for personnel to pick out burrs from the soles of their footwear using tweezers or a knife.

Fuel Tanks

71. Fuel tanks that are strapped are to be loosened and cleaned.

G

Gas Bottles

72. The following areas should be checked:

- a. gas bottles are to be removed from stands and then washed and scrubbed; and
- b. attention is to be given to the bottom of the cylinder, in particular the liquid petroleum gas type, to remove soil, plant and insect matter from lip underneath.

General Maintenance Vehicle

73. The following areas should be checked:

- a. clean as for vehicle;
- b. metal lips at rear of interior are to be removed to allow cleaning of rail guides and all soil, plant and insect matter removed from under these strips;
- c. remove the interior benches, cabinets and fittings. Lift checker plate floor (if fitted) and remove and dispose of wooden underlay; and
- d. complete the internal cleaning of the module before cleaning the vehicle.

Generators

74. Personnel should carry out the following maintenance:

- a. remove all access panels;
- b. the radiator is to be treated as detailed for radiators;
- c. the interior is to be washed/air-cleaned to remove all plant, soil and insect matter;
- d. elevate the generator to facilitate cleaning of the underside;
- e. the cover panels are to be removed and cleaned. Heat and soundproofing on panels is to be cleaned and washed or removed as necessary to achieve the required standard, linings may need to be disposed of if they cannot be brought to an acceptable standard;
- f. clean all recesses and access points (such as forklift tine points, twist lock tie-down points, power outlets);
- g. clean the exhaust grilles;
- h. refer to filters for cleaning of filters;
- i. remove the battery to facilitate cleaning of the battery and the battery recess; and
- j. clean out any cable conduit with high-pressure water. **Note:** that high pressure water is **NOT** to be used for grilles.

Gloves

75. Gloves are particularly susceptible to soil and plant contamination. Gloves are to be laundered or scrubbed with water and brushes as applicable.

Grader

76. Personnel should carry out the following maintenance:

- a. clean as for vehicle;
- b. remove the cutting edges and clean with high-pressure water;

- c. remove the inspection plates on the boom and clean under and around the hydraulic lines using a flexible hose and high-pressure water;
- d. the shim plates on the circle are to be subject to high-pressure water; and
- e. the belly plate is to be completely lowered and the underside cleaned with high-pressure water.

Gun Boots and Sheaths

77. Gun boots and sheaths are to be removed and cleaned.

H

Hats

78. Personnel are to remove all rope and twine for disposal. The hat is to be hot washed to remove all soil, plant and insect matter.

Heater Immersion

79. Heaters immersion, commonly known as “Choofers”, is to be internally scrubbed to remove all dirt and flaking rust. Gas cylinders are to be cleaned as per gas cylinders.

Helicopters

80. As for aircraft, dirt and any foreign matter is to be carefully removed by authorised aircraft trades person only using approved tools. The following areas should be checked:

a. **In-Country Cleaning:**

- (i) Personnel are to clean cabin area, cockpit, wheels, wheel wells, skid/runner bars, under deck plates, panels, in flap wells and all other areas where foreign soil, plant and insect matter may have lodged.
- (ii) All crew and pilot personal clothing and equipment is to be cleaned to be free of soil, plant and insect matter (refer to the separate headings on clothing and boots for specific cleaning requirements).
- (iii) Velcro panels are to be inspected for soil, plant and insect contamination and cleaned as for velcro and cloth cleaning.
- (iv) Kevlar floorboards (if fitted) are to be removed to clean the undersides of the kevlar and the floor. AQIS is to inspect and advise on a case-by-case basis if aluminium floor cover is to be removed from kevlar boards and kevlar is to be cleaned by a high-pressure water hose to remove all soil, plant and insect matter.
- (v) Particular attention is to be paid to avionics bays and tail rotor drive shaft covers.
- (vi) Landing gear is to be washed down with fresh water.

CAUTION

- (vii) Where an aircraft is partially stripped for transportation by sea or air, extreme caution should be taken to blank and cover openings and exposed aircraft systems, for example on main rotor heads.

- (viii) Additional cargo floors and protective plates are to be removed and washed separately then allowed to dry before refitting.

b. On Return to Australia.

- (i) Airframes flying direct to Australia must have prior approval and concurrence from AQIS Canberra on entry point.
- (ii) All Helicopters will be subject to further AQIS inspection on arrival in Australia. AQIS Canberra will advise the extent of this inspection.

Helmets

81. Personnel should remove camouflage or cloth covers and hot wash. Scrim and hessian should be removed for disposal. Inside lining, the headband and chinstraps must be clean and free of any soil, plant and insect matter. Helmets must be scrubbed with brushes and water if contaminated with embedded soil. All velcro straps are to be checked to ensure that all plant and seed material is removed. Specialist helmets require extreme care and diligence to cleaning, the ADFLM and local AQIS representative must be consulted prior to attempting and cleaning action.

Hessian

82. It is not considered cost-effective to clean hessian to an acceptable standard for return. This includes new hessian products that have not been stored in sealed containers.

Hoochie

83. Refer to shelter individual.

K

Knife, Fork and Spoon

84. These items are to be washed and cleaned.

Knives

85. Knives are to be cleaned and lightly oiled. Carrying pouches for these items are to be cleaned as for field packs and webbing.

L

Landrover / B Vehicles

86. The following areas should be checked:
- a. clean as for vehicles;
 - b. the canopy and rails are to be removed;
 - c. the wheel flares (black) are to be removed;
 - d. mats and gear stick covers are to be removed;
 - e. the air cleaner is to be removed;
 - f. the dash and any other electrical areas are to be cleaned by high-pressure air;
 - g. the remainder of the vehicle is to be cleaned by high-pressure water;
 - h. the canopy and bows are to be cleaned by high-pressure water;
 - i. the canopy, bows and flares are not to be refitted before inspection by AQIS;
 - j. the grill is to be removed;

- k. the radiator is to be high-pressure air-cleaned to remove seed and then washed down by a low-pressure water high-volume wash;
- l. the checker plate on the bonnet area is to be removed for cleaning and subject to a high-pressure water clean;
- m. the rear rail lip in the cargo area is to be removed to allow a high-pressure water cleaner underneath to remove all soil, plant and insect matter;
- n. the bonnet is to be removed before cleaning;
- o. the spare wheel is to be removed before cleaning;
- p. seats are to be removed;
- q. all CES items are to be removed;
- r. CES attachment points are to be cleaned;
- s. damaged light fittings, where light seals are compromised, are to be removed to facilitate cleaning;
- t. mudflaps are to be removed;
- u. fuel cans are to be removed and carry racks are to be cleaned. Attention is to be paid to loop areas on straps and buckle areas;
- v. metal floor sides in the cargo area are to be removed to facilitate cleaning underneath;
- w. at least one rear tail-light fitting is to be removed to facilitate flush-out of rear cross member;
- x. a hole is to be drilled inside the toolbox from underneath to allow water to drain out;
- y. holes are to be drilled in the rear quarter panel on both sides of the vehicle to facilitate the cleaning of the tray cross members (refer to Chapter 5 Annexes B to E for more detail);
- z. seatbelts are to be pulled out and wiped with a dry rag once cleaning of the vehicles with water has been completed;
- aa. all cross members on the underside of the vehicle are to be flushed out with high-pressure water using a flexible nozzle; and
- bb. the clutch and brake pedal rubber covers are to be removed to facilitate cleaning pedal areas.

Landrover 6x6 Variants

87. The following areas should be checked:
- a. clean as for vehicles and Landrover;
 - b. flush out the inside of the chassis frame with a high-pressure water hose fitted with a flexible nozzle;
 - c. the long range patrol vehicle wheel arch area has small flare holes that require use of flexible high-pressure hose tips to clean;

- d. the infantry mobility vehicle, remove cargo seats and roll cage structure to facilitate cleaning and inspection;
- e. where fitted rear locker bins have a sound retarding coating that requires removal; and
- f. if fitted, intercooler is to be removed to facilitate cleaning.

Landrover Fitted for Radio

88. The following areas should be checked:

- a. clean as for Landrover,
- b. radio batteries should be removed, and
- c. the antenna mounts should be removed.

Laundry Unit

89. Personnel should carry out the following checks:

- a. pump clean water through the system;
- b. clean filters with high pressure air;
- c. clean lint filters from dryers with high pressure air;
- d. ensure all internal areas are free of soil, plant and insect matter; and
- e. external area is to be cleaned as for containers.

Light Armoured Vehicle (ASLAV)

90. The following areas should be checked:

- a. clean as for vehicles;
- b. removal of the engine/power pack is required to facilitate cleaning and inspection within the engine bay;
- c. unbolt the seat and floor panels and remove them to allow cleaning;
- d. bilge pumps are to be removed to facilitate cleaning and inspection;
- e. the cover panels over the airconditioning plant are to be removed and cleaned. Heat proofing on lower sill of airconditioning unit is to be cleaned and washed or removed as necessary to achieve the required standard;
- f. disassemble upper cabin vents to facilitate cleaning;
- g. the rubber boots on idler and steering arms are to be cleaned and, if necessary, removed to clean soil ingress. Damaged boots may need to be removed for disposal;
- h. the cooling tower is to be removed and cleaned;
- i. lights and mirrors are to be cleaned of all soil, plant and insect debris. Damaged lights and mirrors are to be removed to facilitate cleaning behind them to ensure there is no soil, plant and insect matter;

- j. the power pack air intake is to be cleaned of all seeds, plants, soil and insect matter;
- k. all CES are to be removed and cleaned, all toolbox's and attachment points are to be cleaned of all soil, plant and insect matter. It may be necessary to remove attachment points to ensure that no soil is trapped underneath;
- l. tyres are to be cleaned of all soil. Cracked or damaged tyres are to be removed for disposal as directed by AQIS. All 'run flat' tyres/inserts are to be dismantled on return to Australia to facilitate cleaning and inspection under AQIS control;
- m. the interior is to be vacuumed and air-blown to remove all soil, plant and insect matter. Filters are to be removed and cleaned, the interior is to be washed out (if required) to achieve an acceptable standard. The seats and floor panels are to be unbolted to facilitate cleaning;
- n. the underside of the vehicle is to be washed with a high-pressure water cleaner;
- o. suspension and water propulsion systems are to be cleaned with a high-pressure water cleaner; and
- p. personnel are to clean in and around hex head screws on the prop housing.

Lighter Amphibious Resupply Cargo (LARC V)

91. Clean as for Watercraft.

M

M113 Variants

92. The following areas should be checked:
- a. clean as for vehicles;
 - b. remove the track pads and dispose. Wash the track area where the track pad was affixed;
 - c. remove the track skirts and clean with high-pressure water. Damaged skirts may not be able to be cleaned to a satisfactory standard but are to be assessed on a case-by-case basis;
 - d. damaged rubber on-road wheels require removal and disposal in accordance with the relevant disposal policy;
 - e. floor plates are to be removed and subject to a high-pressure water clean;
 - f. the track link is to be cleaned by high-pressure water to remove all soil, plant and insect matter. Damaged vulcanised rubber on road wheels is to be removed and destroyed;
 - g. the engine bay is to be sprayed with degreaser and then washed out with high-pressure water. If this cannot be cleaned to a satisfactory standard, the power pack should be removed;
 - h. the radiator is to be removed and disassembled to facilitate cleaning and inspection;
 - i. the gun boots (rubber) are to be removed and cleaned by high-pressure water. Damaged boots may not meet required standard but will be assessed on a case-by-case basis;
 - j. internal heater units are to be disassembled and the foam filter is to be removed and destroyed. The heater unit is to be cleaned of all soil, plant and insect matter;

- k. bilge pumps are to be removed to facilitate cleaning and inspection; and
- l. the driver's crash pad is to be removed to facilitate cleaning of soil, plant and insect matter from underneath.

Metal Containers

- 93. Refer to trunks.

Metal Racks

- 94. Box and tubular steel racks, which have openings, are to be given a high-pressure water clean. Where one end is closed, a flexible nozzle to be inserted to clean.

Metal Trunk

- 95. Refer to trunks.

Millbank Filter

- 96. Refer to filters.

Mosquito Nets and Domes

- 97. Mosquito nets and domes are to be washed to remove all soil, plant and insect debris and removed from their carry bags and covers. Any supporting poles are to be removed and sleeves are to be cleaned.

N

Neck Cloth

- 98. Refer to sweat cloth.

P

Packs

- 99. All packs are to be disassembled and all pockets and apertures are to be opened and turned inside out if possible. Most packs can be given a 'wipe clean'; however, items that have soil embedded into them are to be scrubbed with brushes to remove the soil. Attention should be paid to pouch fasteners, belt clips and buckles to ensure that no soil, plant, or insect debris is caught in these areas. Belts are to be disassembled including pad belts to ensure all possible areas of contamination are inspected and cleaned. Water bottle carriers are particularly subject to weed seed becoming embedded in the lining and should be thoroughly checked to ensure all seeds are removed. All water is to be emptied. Packs are to be left disassembled for the AQIS inspection.

Pallets (Wooden, Plastic, Metal)

- 100. The following checks are required:
 - a. wood clean as for wooden items;
 - b. fumigation and extensive cleaning is required for wooden pallets. It may be considered more cost-effective to dispose of these items; and
 - c. 'L' pallets must be serviceable with no splits; and
 - d. Plastic pallets are to be washed.

Pan Set Messing

- 101. Pan set messing is to be, washed and cleaned.

Plant Equipment

102. The following areas should be checked:

- a. clean as for B vehicles;
- b. all structural support members are to be checked for animal and nest infestation. All QRM is to be removed.
- c. if the blade face is damaged, cracks, splits will require investigation as to the extent of repair and cleaning required prior to clearance;
- d. remove rippers, blades and boots and clean with high-pressure water;
- e. cabin area is to be vacuumed and air-blown clean. Airconditioning units are to have filters removed and air vents are to be opened and blown clean with high-pressure air;
- f. interior cabin linings are to be removed to facilitate inspection. If these items are contaminated, then the local AQIS Officer should be consulted as to whether the linings can be brought to an acceptable AQIS standard;
- g. all floor mats are to be removed and cleaned
- h. remove motor/engine covers (where fitted);
- i. there may be a requirement to remove all soundproofing from engine bay covers for disposal;
- j. removable floor-pans/decks are to be removed for cleaning of underlying surfaces;
- k. the rubber seals around the windscreen (where fitted) are to be cleaned of all soil, plant and insect matter;
- l. lights are to be cleaned and any damaged lights removed to allow cleaning of the fitting to ensure there is no soil, plant or insect matter;
- m. the radiator is to be air-blown clean and if necessary hand-picked clean of all seed and insect matter;
- n. rock guards (where fitted) will be required to be removed for inspection.
- o. turntable areas are to be cleaned of all contaminant, soil, plant and insect matter by high-pressure water cleaner;
- p. all cables are to be fully extended and cleaned of oil and grease to ensure there is no soil, plant or insect material embedded;
- q. the jib is to be fully extended to facilitate cleaning of all sections;
- r. hydraulic rams are to be extended and cleaned;
- s. rubber seals around doors and windows are to be cleaned to remove all soil, seed and insect matter;
- t. remove access panels and clean track area of all soil, plant and insect matter with high-pressure water;

- u. all track links are to be cleaned with high-pressure, ensuring that the area between each track link is thoroughly cleaned;
- v. inner wheels (Dynapac CT260) are to be deflated and removed, tyres and wheels are to be cleaned of all soil, plant and insect matter;
- w. attachment points are to be cleaned of all soil, plant and insect matter. If necessary disconnect attachments; and
- x. hydraulic lines are to be wiped clean of all soil and fluid. Cable conduit is to be cleaned with high-pressure water or removed.
- y. the belly plate is to be completely lowered and the underside cleaned with high-pressure water.
- z. the cleaning bar is to be removed;
- aa. remove brake protector plates from inside of the wheels
- bb. all damaged mirrors are to be removed and the mirror holders cleaned; and
- cc. an operator as well as appropriate RAEME support is required to be available with the vehicle throughout the cleaning process.

Plastic Matting

103. Plastic matting will require a high-pressure water clean to remove all soil, plant and insect matter. If the mat is damaged or badly soiled, disposal in-country is recommended.

Plastic Trunks

104. Refer to trunks.

Port-a-Loo

105. The following areas should be checked:
- a. clean and remove excess material;
 - b. wash with detergent to remove fats and other solids;
 - c. rinse with clear water; and
 - d. sanitisation, using a solution of hydrochloride solution (liquid bleach) concentration, is to be:
 - (i) the hydrochloride solution is to be at a ratio of four:one (four parts water, one part solution);
 - (ii) the port-a-loo is to be saturated by wet spraying on all surfaces under AQIS supervision;
 - (iii) contact time of the solution is to be **not less than** two hours; and
 - (iv) the solution is to be drained before inspection for safety reasons.

R

Radiators all Types (Including Airconditioning Units and Generators)

106. The following areas should be checked:

- a. removal of the radiator will facilitate cleaning;
- b. the radiator is to be high-pressure **air-cleaned** to remove seed and then washed down by a low-pressure water high-volume wash;
- c. dual radiator systems are to be disassembled to facilitate cleaning from both sides and allow an AQIS inspection; and
- d. bent radiator grilles may require heat treatment to burn any embedded seed material (using heat shrink guns).

CAUTION
Do not apply blow torch.

Radio Equipment

107. The following areas should be checked:

- a. air-sealed communications equipment requires to be cleaned externally by wiping down with damp cloth;
- b. internal component items are to be cleaned by air blow or vacuum cleaning using cleaning brushes, if necessary;
- c. handset covers are to be removed and cleaned if possible;
- d. all cables are to be wiped down with wet/dry rags to remove soil, plant and insect matter; and
- e. all air filters on communications equipment are to be cleaned or replaced as necessary.
- f. access to secure communications equipment is to commensurate to the individuals security classification. Commanders are to ensure teams meet this requirement.

Refrigerators

108. The following areas should be checked:

- a. the interior is to be washed out. Attention is to be given to any cooling fans or mesh inside;
- b. after cleaning, the interior is to be sprayed with an approved ;
- c. the external area is to be washed as for containers;
- d. the cooling radiators and elements are to be cleaned as for radiators
- e. degassing of systems may be required as part of the customs clearance process;
- f. the motor compartment is to be cleaned as for vehicles; and
- g. hose lines are to be cleaned.

Ropes and Universal Dispatch Straps and Lifting Slings

109. The following action should be taken:

- a. all ropes and universal dispatch straps are to be extended to their full length and wiped or washed clean;

- b. attachment points, fixtures and tension devices require specific attention during cleaning; and
- c. personnel are to inspect and remove all quarantine risk material.

Rubber Seals

110. The following action is to be taken:

- a. rubber seals fitted around equipment, for example, windscreens, doors, tailgates, and containers. are to be pulled back, vacuumed and washed clean of all soil, plant and insect debris;
- b. damaged seals should be replaced; and
- c. rubber seals not fitted to equipment should be separated from timber stores or packaging that will require fumigation due to the damage that may be caused by the application of fumigation chemicals.

S

Sandals

111. Refer to footwear.

Sandbags

112. Refer to defence stores.

Seats

113. Foam seat panels that have been damaged are to be removed and destroyed.

Seatbelts

114. Seatbelts are to be unwound and wiped clean. The seatbelt tongue/buckle assembly is to be examined closely to ensure the effective removal of all QRM. The inertia reel (where fitted) is to have all QRM removed. If necessary, removal of any sheaths or covers may be necessary to achieve the required standard.

Shell Dressing

115. Shell dressing is to be removed from pouch or untaped from webbing to ensure no soil, plant and insect matter has been trapped on the tape or in between tape and dressing. Removal of any residual adhesive is required from the outer protective cover.

Shelters

116. The following areas should be checked:

- a. all shelters are to be removed from their parent vehicle to allow cleaning underneath and of the attachment points. Internal areas are to be vacuumed, air-blown, swept or wiped clean to remove all soil, plant and insect material. Filters are to be removed and cleaned as for filters. External cleaning is to be by scrubbing and water-wash downs with either high or low-pressure cleaners; and
- b. clean the canvas sides as for tentage;
- c. remove camouflage nets and clean the roof with high-pressure water;
- d. clean steps of all soil, plant and insect matter, paying particular attention to where steps pivot;

- e. lift all machinery and equipment within the shelter to facilitate cleaning underneath;
- f. light covers are to be removed and all insects and insect matter are to be cleaned by vacuum, air cleaned and wiped down;
- g. the air-conditioning unit (where fitted) is to be removed to facilitate cleaning, the ducting system is to have the filters removed and cleaned. Air ducts are to be removed and the ducting system blown clean with high-pressure air;
- h. false floors where fitted are to be removed to facilitate cleaning and inspection;
- i. the floor is to be washed clean. Attention is to be paid to joint and attachment point areas;
- j. all machinery and equipment contained within the shelter is to be cleaned of all contaminant to ensure soil, plant and insect matter is removed;
- k. expandable shelters are to be fully extended to allow inspection of slide and expansion points; and
- l. levelling jacks and feet are to be removed and inspected;

Shelter Individual

117. Individual shelters are to be washed.

Shoes

118. Refer to footwear.

Souvenirs

119. All souvenir items must be declared to quarantine if they are of concern when entering Australia. Customs imports must still be obtained for the importation of certain material.

Stave Tank

120. Refer to water containers.

Stock Cages

121. All stocks are to be removed and the cages cleaned by high-pressure air, vacuum, high-volume low-pressure water and high-pressure water.

Stretchers

122. The following action is to be taken:

- a. personnel should remove canvas or cloth from wooden or aluminium poles and braces, canvas or cloth is to be cleaned by brushing or use of warm soapy water, high-pressure water is not to be used on canvas;
- b. poles are to be washed and scrubbed with water and brushes to remove all plant, soil and insect matter, particular attention is required for hollow poles which may require removal of end caps; and
- e. Stretchers are to be left disassembled for AQIS inspection. Wooden products will be subject to fumigation treatment.

Swags

123. Refer to Bivvy Bags. .

Sweat Cloth

124. The following areas should be checked:

- a. personnel are to inspect and remove all QRM, that has become embedded in the cloth fibres; and
- b. sweat cloths are to be washed, as necessary, to remove all soil, plant and insect matter.

T

TASLU/ TACLOP

125. Personnel should carry out the following maintenance checks:

- a. clean as for vehicles,
- b. cable conduit is to be removed for cleaning, and
- c. hydraulic rams are to be extended for cleaning.

Tentage

126. The following areas should be checked:

- a. all tentage is to be given a brush down, brush scrubbing and hose cleaning, paying particular attention to the seam areas and then hung so as not to contact the ground for drying;
- b. ropes are to be cleaned as for ropes;
- c. canvas bags are to be turned inside out and checked for burrs, seeds and insects;
- d. poles, knuckles and pegs are to be subject to a high-pressure water clean to remove all soil, plant and insect matter (ants, spiders and mud wasps are of particular concern);
- e. if tentage has not been used during the entire deployment, then the requirement is for tentage to be unrolled, brushed and swept clean to ensure no vermin or insect infestation and then subject to an AQIS inspection and;
- f. velcro panels and seams (where fitted) are to be cleaned as for velcro.

Thongs

127. Refer to footwear.

Tools

128. Tools are to be wiped clean and lightly oiled after inspection.

Toolboxes and Tool Bins

129. Toolboxes and Toolbins are to be emptied and brushed, air-blown and wiped clean. Tools are to be wiped clean and lightly oiled after inspection.

Trailer (less than 1500kg capacity)

130. Personnel are to carry out the following maintenance checks:

- a. clean as per B vehicles; and
- b. trailers should be turned upside down and the undersides washed down.

Trailer (over 1500kg capacity)

131. The following actions should be taken:

- a. clean as per B Vehicles;
- b. the area underneath the turntable (where fitted) is to be degreased and subject to a high-pressure water hose to remove all soil, plant and insect matter (use flexible nozzle);
- c. the access panel to the turntable is to be removed and the turntable is to be degreased and given a high-pressure water clean; and
- d. remove all wooden boards and clean. Disposal should be considered for damaged boards and dunnage.

Trollenberg (Inflatable Hospital Ward)

132. Refer to tentage.

Trunks

133. The following areas should be checked:

- a. **Plastic.** Plastic trunks are to be subject to a wash down to remove all quarantine risk material.
- b. **Metal.** Metal trunks are to be subject to the same clean as for plastic trunks, with particular attention given to the metal lips on the ends of the trunk, locks and under the rubber seal on the inside of the lid.

Tyres (New and Old)

134. All tyres are to have the following areas checked:

- a. tyres are to be washed and scrubbed to remove all plant, soil and insect matter;
- b. damaged tyres are to be inspected by AQIS, who will determine their suitability for return to Australia;
- c. all tyres are to be treated with an approved residual insecticide after cleaning; and
- d. perished tyres are to be subject to disposal.

Fitted:

- (i) Fitted tyres that are damaged should be replaced with new tyres.

Not Fitted:

- (i) Tyres that are not fitted to rims are to be stored in such a manner that water cannot collect inside the tyre. The preferred AQIS solution is that tyres are stored within containers. Tyres not fitted on rims will require fumigation on return to Australia.

U

Uniforms

135. The following action is to be taken:

- a. hotwash and tumble-dry as required,

- b. one 'fly home' set per member, and
- c. other sets are to be quarantined on return to Australia and subject to a hotwash and tumble dry.

Universal Dispatch Straps/Ropes

136. Refer to ropes and universal dispatch straps.

Universal Tools

137. Universal tools, for example leateman, gerber, are to be cleaned of all quarantine risk material and lightly oiled. Carrying pouches for these items are to be cleaned as for field packs and webbing.

V

Velcro

138. Velcro is to be brushed and washed to ensure all quarantine risk material is removed.

W

Water Bottles

139. Water bottles are to be emptied and cleaned of all quarantine risk material.

Water Bottle Carriers

140. Refer to webbing.

Water Containers

141. Open top water containers or containers that may have been open topped (such as water Jerry cans, stove tanks and knapsack sprayers) are to be scrubbed, and sprayed inside with chlorinated water (400 parts per million) and then allowed to air dry before inspection. Consideration as to the value of effort to bring these items to an acceptable standard may be required.

Watercraft

142. The following areas should be checked:

- a. clean all internal and external areas to remove soil, plant and insect matter;
- b. remove all access panels as required to ensure all areas are cleaned;
- c. clean or replace the air filters;
- d. high-pressure water clean and scrub hull to remove all anti-fouling and marine growth;
- e. bilge tanks are to be emptied in port as per normal port operations and, if at sea, they are to adhere to normal AQIS protocols;
- f. clean all deck areas where vehicles and equipment have been carried and soil residue deposited;
- g. all soil is to be removed by wash down, paying particular attention to recessed areas of the decks such as tie-down, stanchion areas and ramps; and
- h. all areas should be inspected for vermin and insect infestation, and appropriate action taken to eradicate if evidence of vermin is detected.

Water Filters

143. The following areas should be checked:

- a. non-potable water filters are to be subject to disposal; and
- b. potable water filters are to be cleaned to remove all quarantine risk material.

Water Jerry Can

144. Refer to water containers.

Water Purification Equipment-CPC7.5 & 20, Reverse Osmosis water purification unit

145. Personnel should carry out the following maintenance checks:

- a. pump clean water through the system;
- b. remove the active carbon filter material and dispose of;
- c. refer to user documentation for the removal of membrane filters;
- d. ensure all internal areas are free of quarantine risk material;
- e. remove all plastic filters/separators for cleaning
- f. open all valves for flushing action;
- g. externally clean as for vehicles; and
- h. clean canopy as for vehicles.

Webbing

146. The following areas should be checked:

- a. all webbing is to be disassembled and all pockets and apertures are to be opened and turned inside out if possible;
- b. most webbing can be subject to a 'wipe clean'; however, items that have soil embedded into them are to be scrubbed with brushes and water to remove the soil and allowed to air dry;
- c. attention should be paid to pouch fasteners, belt clips and buckles to ensure that no soil, plant or insect debris is caught in these areas, especially in any tape used on the webbing (all tape and glue residue should be removed);
- d. belts are to be disassembled, including pad belts, to ensure all possible areas of contamination are inspected and cleaned;
- e. water bottle carriers are particularly subject to weed seed becoming embedded in the lining and should be thoroughly checked to ensure all seeds are removed; and
- f. webbing is to be left disassembled for the AQIS inspection.

Winch Ropes, Wire Ropes and Slings

147. The following areas should be checked:

- a. all items are to be extended to full length and subject to a high-pressure water clean using degreaser, if required, to remove all soil, plant and insect matter; the winch drum is also to be degreased and subject to a high-pressure water clean, and

- b. all winch ropes, wire ropes and slings are to be re-oiled after inspection, an application of a protective covering (plastic bag) may be required to protect the refurbished ropes and cables.

Windscreen Reservoirs

148. The following areas should be checked:

- a. windscreen reservoirs are to be emptied and cleaned through with a chlorine solution of 400 parts per million and allowed to air dry, and
- b. reservoir pipes should also be blown through with this solution.

Wire

149. It is not considered practical to bring wire to a satisfactory AQIS standard and therefore it should be disposed of.

Wooden Items

150. The following actions are required for wooden items including tool/tool handles.

- a. wood that is heavily contaminated with soil is to be destroyed, if it cannot be brought to a satisfactory AQIS standard;
- b. the removal of any quarantine risk material and mandatory fumigation is required on all timber products and packaging before any wooden item is returned to Australia (note fumigation is normally done by approved contractors in Australia) and
- c. Wooden items or foreign timber packaging supports encased with bark will not be allowed into Australia.

NOTE: This list is not exhaustive and is here to capture those equipment most likely to be deployed Overseas.

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PART 10: AUSTRALIAN QUARANTINE INSPECTION SERVICE (AQIS) REQUIREMENTS

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1. Has any part of this document created problems or required interpretation in use? State paragraph no(s) and any rewording suggested.

2. Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.

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