

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**DESERT OPERATIONS
CLEANING REQUIREMENTS:**

**RADAR SET
AN/TPN-18A
NSN 5840-01-070-9415**

**LANDING CONTROL CENTRAL
AN/TSQ-71B
NSN 5895-01-092-8074**

**AIR TRAFFIC CONTROL CENTRAL
AN/TSW-7A
NSN 5895-01-018-1246**

**COMMAND SYSTEM,
TACTICAL AIRSPACE INTEGRATION SYSTEM (TAIS)
AN/TSQ-221
NSN 5895-01-476-4132**

**TACTICAL TERMINAL CONTROL SYSTEM
AN/TSQ-198
NSN 5840-01-388-1454**

**RADIO BEACON SETS,
AN/TRN-30(V)
NSN 5825-00-423-1654**

Approved for public release; distribution is unlimited.

Headquarters, Department of the Army

1 MAY 2004

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CHAPTER 1.

1. Purpose. Provide a cleaning requirement to remove salt / salt laden sand and other corrosive contaminants from radar set AN/TPN-18A returning from OCONUS Desert Operations.

Environmental conditions within the Southwest Asia (SWA) theater of operations were conducive to the introduction of salt laden sand and other corrosive substances into the interior surfaces of the radar. These substances, if allowed to remain will accelerate the corrosion process and lead to premature corrosion damage. Immediate removal of these substances is imperative in order to minimize future corrosion damage. This Technical Bulletin (TB) is issued to provide special inspection and cleaning procedures for all deployed/redeployed radar sets.

2. Priority Classification. NORMAL.

a. **Equipment In Use.** No later than 30 days after redeployment from Desert operations. Deployed radar sets will complete cleaning procedures as necessary but as a minimum at next preventative maintenance checks and services (PMCS).

b. **Equipment in Storage.** No later than 30 days after redeployment from Desert operations. Equipment deployed will complete cleaning procedures as necessary but as a minimum quarterly.

3. End Items to be inspected. All radar sets after redeployment from Desert operations. Deployed radar sets will complete requirements as necessary but at a minimum at next phase.

4. Assembly Components to be Inspected. Not applicable

5. Parts to be Inspected. Receiver/Transmitter Group.

6. Application.

a. Category of Maintenance – organizational/Direct Support (UNIT Level).

b. Time Required. As required to comply with this TB.

c. Estimated Cost Impact of Stock Fund Items to the Field. Not applicable.

d. TB / MWOs applied prior to or concurrently with this inspection. Not applicable.

e. Publications which require change as a result of this inspection. Not applicable.

7. Supply / Parts and Disposition.

a. Parts Required. Not applicable.

b. Requisitioning Instructions. Requisition materials through normal supply channels using normal supply procedures. Requests should be the highest priority authorized by Force Activity Designator (FAD). If the delivery is forecasted to be in excess of 21 days; or if materials are not received within 21 days of ordering contact your local GSA Customer Service Center DSN 695-4865 as appropriate to specific item of concern. If unable to requisition items within the allotted time frame contact one of the POCs listed in this TB.

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c. Bulk and Consumable Materials.

NOMENCLATURE	PART NO/NSN	U/I	QUANTITY REQ
Cloth, Lint-free	8305-00-267-3015	LB	
Crocus Cloth	5350-00-192-5052	EA	

8. Special Tools, Jigs and Fixtures Required. Not applicable.

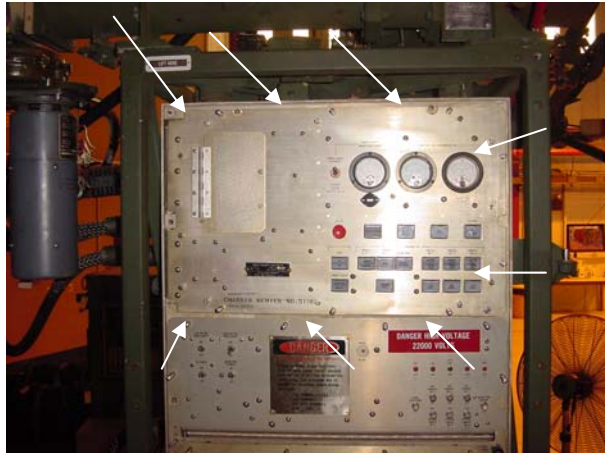
9. Inspection Procedures. Only applicable to radar sets redeploying.

10. Cleaning Procedures.

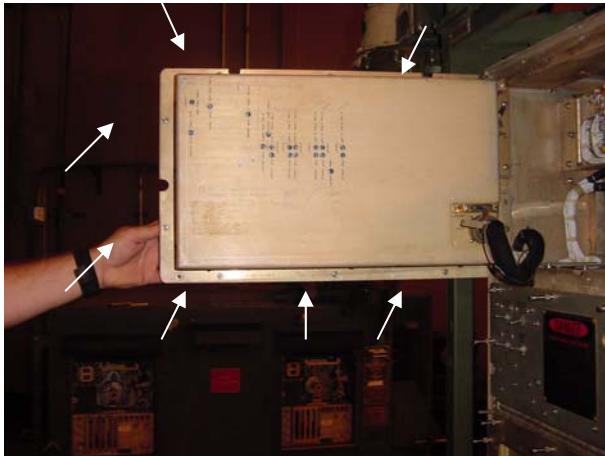
- a. Using a lint-free cloth, clean exterior surfaces of equipment and mechanical assemblies. Dampen cloth (not wet) with warm sudsy water to remove ground-in dirt, grease, and fungus.
- b. With a clean lint-free cloth and soft-bristled brush, clean plugs, jacks, and front panel controls and indicators. Meter faces and front panels may be cleaned using a weak solution of water and mild soap. Avoid excessive amount of solution on cloth and do not let solution enter behind controls or panel mounting hardware of controls and indicators.
- c. Clean exterior and pins of connectors of interconnecting cables with a brush. Cleaning compound may be used with brush and cloth to remove grease, fungus, and light tarnish.
- d. There are four air filters: one in bottom of receiver-transmitter, one in receiver side door of receiver-transmitter, and one in bottom front of each pulse generator drawer. Tap edges of air filters to remove as much dirt as possible. Wash air filters in warm sudsy water, using brush to remove dirt from wire mesh. Allow filters to drain by supporting on suitable surface with airflow arrows on sides of filters pointing upward.
- e. **Inspect/clean:**
Receiver-Transmitter air-vent cover.
Radar Set Group - Air filters in bottom of receiver-transmitter and in receiver door
Control-Indicator Group - Air filters in bottom left front of both pulse generators (master and slave).
Receiver-Transmitter Internal Components - Open receiver and transmitter doors and clean. Control-Indicator - Remove indicator access cover on side of shelter to expose control indicator and clean.
- f. Clean reflective surfaces on antennas and covers on feedhorn and polarizer assemblies with soft, lint-free cloth. Cloth may be used with weak solution of water and mild soap. Ground-in dirt, if necessary, can be removed with a cloth dampened (not wet) with cleaning compound and used sparingly.

Transmitter Control Unit (TCU)

1. Loosen 7 externally retained thumbscrews and remove outside protective panel.
2. Loosen 8 captive screws and open door.



3. Remove cover from inside unit by loosening 12 captive screws, and swing unit outward. Brush everything lightly and blow dirt, dust and sand out.
4. Reinstall cover panel.



5. Behind TCU, remove cover on remote switch deck by removing 6 screws.
6. Brush everything lightly and blow dirt, dust and sand out.