MAINTENANCE SCHEDULE
MODULAR SHIELDED ENCLOSURES

European EMC Products Ltd

INTRODUCTION
The electromagnetic performance of the shield can be seriously impaired by apparently unimportant fixings, modifications or damage to the shield structure. Periodic inspection and cleaning is required with respect to certain features.

The following information is intended to highlight procedural requirements in relation to the above and must be strictly adhered to for operation of the shield to be maintained in the manner and purpose for which it was designed.

Maintenance to any part of the shield must be carried out by approved personnel.

Failure to comply with the following information could result in shield degradation to a point where the shield could be rendered inoperative.

1 WALL, FLOOR AND CEILING SHIELD
The walls, floor and ceiling should be inspected at regular intervals for signs of corrosion, and suitable repairs carried out.

2 PENETRATIONS
By the nature of their construction and use, waveguides are maintenance free.

3 RF DOORS
The nature of this type of door is such that it will form a vital part of the building primary shielding and as such requires carefully planned and executed cleaning and maintenance.

This type of door / frame is of sheet steel construction and incorporates a special 'knife~edge' to 'finger strip' shielding arrangement.

a) Ensure that the door operates correctly ie., that the contact edge is in correct alignment with the RF seal contact fingers.

b) Lubricate hinge pins and latch mechanism with a suitable light mineral oil.

c) Inspect knife edge contact and finger contacts for damage.

d) Visually check for correctness of RF seal contact. This can be ascertained by the 'witness' mark left by the finger strip on the knife-edge.

e) Clean knife-edge and finger contacts using suitable solvent on the lint free cloth.

A separate door maintenance schedule of works and check sheet is included on the following pages for your information.

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KNIFE EDGE DOOR - SCHEDULE OF WORKS

SITE.....

DOOR REFERENCE.....DOOR SIZE.....

DOOR STYLE : SINGLE/DOUBLE LEAF LATCH TYPE : PNEUMATIC/SLAM/LEVER

3.1 Finger Stock

3.1.1 Visually inspect Beryllium copper Finger Stock to assess for damage / wear.

3.1.2 Fully degrease and thoroughly clean Finger Stock, using a good quality solvent based cleaner, or white spirit and a soft lint free cloth.

3.1.3 Lightly coat with contact spray ie., WD 40 (DO NOT USE TO EXCESS).

3.2 Knife Edge

3.2.1 Visually inspect Knife Edge to assess for damage / wear.

3.2.2 Fully degrease and clean Knife Edge, if required lightly abrade with a fine grit carborundum block to remove excessive grime.

3.2.3 Lightly coat with contact spray ie., WD 40 (DO NOT USE TO EXCESS).

3.3 Finger Stock / Knife Edge

Visually inspect for good witness mark around Knife Edge whilst opening and closing door, if required adjust Knife Edge alignment using aligning tool to obtain a uniform witness mark.

3.4 Hinges

Check hinges, and shoot bolts if fitted, to ensure correct operation, lightly oil as required using a light mineral oil.

3.5 Latch / Handle

3.5.1 Remove Latch covers, clean, and inspect for wear and correct operation.

3.5.2 Lubricate as necessary using Electrolube contact treatment grease 2GAX.

3.5.3 Prior to carrying out any work on pneumatic latches, ensure the main air supply is off (ie the compressor) and that the air is drained from the system. The latches will still operate with no air pressure so ensure that the air is completely drained and operate the red emergency button on one of the doors to ensure the doors cannot operate whilst being serviced.

IF IN DOUBT - DO NOT SERVICE PNEUMATIC DOORS

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3.5.4 Pneumatic latches should be checked thoroughly for air leaks, loose components, etc and special attention should be given to the roller switch that controls the closing of the door.

3.5.5 Check push buttons for damage/wear and replace if required.

3.5.6 If no oiler is fitted to the pneumatic system, it is recommended to remove the main air supply into each latch and pour into the tube a small amount of airline oil (5ml Siikair VG22). This will then circulate once the air supply is reconnected.

3.5.7 Refit all covers, reconnect air supply and test.

3.5.8 If pneumatic system appears not to operate correctly, ensure all emergency buttons are 'un-latched' as they lock in when operated and therefore require to be twisted to un-latch. Open all doors and then check status of each emergency button, close each door in turn to reset system.

3.5.9 Re-test operation of latches.

3.6 External Doors

3.6.1 Inspect exterior of door for signs of damage, inspect for corrosion of welds from Knife-Edge to main shield.

3.6.2 Inspect weather strip for signs of degradation and replace if necessary.

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DOOR MAINTENANCE PROCEDURE	KNIFE EDGE DOOR - CHECK SHEET	
SITE		
DOOR REFERENCE	DOOR SIZE	
Door Style : Single / Double Leaf	Latch Type : Pneumatic /Slam / Lever	
ITEM	CHECKED OK	COMMENT
FINGERSTOCK CONDITION		
Top		
Bottom		
Left Hand		
Right Hand		
Centre (if applicable)		
KNIFE EDGE CONDITION		
Top		
Bottom		
Left Hand		
Right Hand		
Centre (if applicable)		
FINGERSTOCK / KNIFE EDGE SEAL		
Top		
Bottom		
Left Hand		
Right Hand		
Centre (if applicable)		
HINGE OPERATION		
LATCH / HANDLE OPERATION		
DOOR FACES GENERAL CONDITION		

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