

## DEF STAN 00-970 NOTICE OF PROPOSED AMENDMENT (Def Stan 00-970-NPA)

**TITLE OF PROPOSAL: Amendment to Part 1 Section 4 Table 1 Specifications**

Stage of Amendment:                      Issue 1

Def Stan 00-970 NPA Serial No:	2013-004	
Unsatisfactory Report Serial No:	2013-002	
MAA Originator:	C2    R A Bennett-Jones	MAA-Cert-ADS1a

Affected Part:  
 (including paragraphs)                      Part 1 Section 4 Table 1

Cross-reference to other  
 relevant amendment  
 proposals or documents:

**ADS Point of Contact details**

Rank/Grade and Name:	As above	
Telephone Number mil/civ;	9679 35109	030 679 35109
Civilian Email address:	<a href="mailto:MAA-Cert-ADSGroup@mod.uk">MAA-Cert-ADSGroup@mod.uk</a> .	

**Part 1 (for issue to User Community)**

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**INTRODUCTION (*Not more than 250 words*)**

*Enter here a brief explanation of why NPA is being issued, i.e. what does the amendment hope to achieve, by when and how:*

**The new text will be clearly identifiable within Annex A.**

*A significant number of specifications within Table 1 have been withdrawn or cancelled, Unsatisfactory Content reporting form 2013-002 refers. This NPA is to consider the replacement specifications recommended by the UCR Form.*

## SUMMARY OF PROPOSED AMENDMENT

**Change:** *See Annex A*

### Impact Assessment:

**Objective:** To provide acceptable means of compliance for protective treatments.

**Risk Assessment:** The impact of not incorporating the recommended changes is the possibility of misinterpretation of the requirement

### Courses of Action.

1. **Do nothing.** Not incorporating the changes will result in reviewing the proposals for compliance with the requirement on a case by case basis.
2. **Partial Amendment.** Due to the minor nature of the change partial amendment is not considered.
3. **Full Amendment.** There is no reason that full implementation of all the changes should not be completely feasible. The changes will remove the additional work required to comply with the 00-970 Clauses. It is highly likely that the additional detail will be complied with in full. Retrospective mandation is not considered necessary.

**Preferred Course of Action.** Full Amendment

### Costs and Benefits:

1. **Do nothing.** There is no benefit of the do nothing option, which could result in increased cost to the department in confirming compliance with Def Stan 00-970.
2. **Partial Amendment. No Benefit.**
3. **Full Amendment.** Full amendment will clarify Def Stan 00-970 Part 1 and will reduce ambiguity, possibly resulting in improved overall compliance with the document. The changes proposed here represent current practice and would have no or little economic impact.

**Consultation period ends: 27/Sep/2013**

The consultation period for this proposed amendment ends on the stated date. Please send your feedback via email to [MAA-Cert-ADSGroup@mod.uk](mailto:MAA-Cert-ADSGroup@mod.uk).

**Part 2 (for MAA internal use)**

**Log of Comments** (to be completed once the consultation period has ended).

Comment reference	Date	From (name)	Post	Précis or Topic of Comment	MAA Response

**Recap of Proposal:** *A short summary of the proposal amendment including what changes were incorporated following the consultation period.*

**Recommendation.** *This section will be completed once all the comments have been received. The recommendation is for the relevant Head of Division to approve the proposal.*

**Approval.** *This section will detail exactly what has been approved and by whom, and confirm the date for the amendment to be incorporated as well as the date the NPA should be reviewed to determine what the effects of the amendment were in terms of meeting the objective of the change, if there were any unintended consequences and establishing whether the estimated costs were correct.*

Accepted changes will be authorised at the following levels:

- Changes requiring retrospective mandate: 2 \*
- Changes not requiring retrospective mandate but having a significant engineering impact: 1\*
- Changes not requiring retrospective mandate but having a Minor engineering impact: Head of ADS.
- Changes deemed as administrative only: C1 or Equivalent.

Approved by:

Signature:	
Name:	
Rank/Grade:	
Post:	
Date signed:	
Date for amendment to be incorporated:	



**Part 3 - NOTIFICATION OF AUTHORIZED AMENDMENT (Def Stan 00-970 NAA)**

Document Part:		Sub-Part:	
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Unsatisfactory Report Reference:		NPA Reference:	
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Originator:		Date:	
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Amendment to be Incorporated on	<b>XX/XXX/XX</b>
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**APPROVAL**

*This Def Stan 00-970 NPA has been approved by the xxxx on behalf of DG MAA*

**INCORPORATION**

*The amendment will be incorporated in....*

***Signed (IAW with part 2).***

**for DG MAA**

**Annex A**

**Existing Text**

**TABLE 1**

**LIST OF PROTECTIVE MATERIALS AND PROCESSES  
 CALLED UP IN CLAUSE 4.3**

Note: Specification DTD 900 (Obsolescent) includes appendices listing proprietary materials and processes approved under its terms for aerospace use.

<b>Title</b>	<b>Specification No.</b>
PROCESSES	
Glossary of paint terms	BS 2015(Partially superseded by BS EN 971-1)
Sprayed metal coatings on iron and steel articles	BS 2569 Parts 1 and 2 (Part 1 superseded by BS EN 22063)
Cleaning and preparation of metal surfaces	Def Stan 03-2
Protection of aluminium alloys by sprayed metal coatings	Def Stan 03-3
The pretreatment and protection of steel	Def Stan 03-4

<b>Title</b>	<b>Specification No.</b>
parts of specified maximum tensile strength exceeding 1450 N/mm <sup>2</sup>	
Electroless nickel coating of metals	Def Stan 03-5
Painting of metal and wood	Def Stan 03-7 (Obsolescent)
Electro-deposition of tin	BS 1872)
Phosphate treatment of iron and steel	Def Stan 03-11
Chromate conversion coatings (chromate filming treatments) for aluminium and aluminium alloys	Def Stan 03-18
Chrome and anodizing of aluminium and aluminium alloys	Def Stan 03-24
Sulphuric acid anodizing of aluminium	Def Stan 03-25

Title	Specification No.
and aluminium alloys	
Hard anodizing of aluminium and aluminium alloys	BS ISO 10074
Electro deposition of chromium for engineering purposes	Def Stan 03-14
Electro deposition of cadmium	Def Stan 03-19
Electro deposition of zinc	Def Stan 03-20
Nickel plating (heavy)	DTD 905(Obsolescent)
Protection of magnesium rich alloys against corrosion	DTD 911(Obsolescent)
Identification colouring of rivets in aluminium and aluminium alloys	DTD 913(Obsolescent)
Process for the external finishing of radomes	DTD 926(Obsolescent)
Cadmium coating of very strong steel parts by vacuum evaporation.	DTD 940(Obsolescent)
Surface coating of parts by use of detonation, flame and plasma spraying processes	DTD 941(Obsolescent)
Anodizing of titanium and titanium alloys	DTD 942(Obsolescent)
Electrodeposited cobalt/chromium carbide composite coatings	DTD 943(Obsolescent)
STANDARD PAINT SCHEMES	
Interior and exterior protective finishing scheme (cold curing epoxide type)	BS 2X 33 Primer, Def Stan 80-161 Finish
Exterior and interior finishing schemes -	BS 2X 34

Title	Specification No.
matt and glossy (cold curing polyurethane type) (Scheme 1 and Scheme 2)	
Selectively strippable acrylic finishing schemes - matt and gloss - for use on aircraft	Def Stan 80-214
External and interior finishing schemes - matt and glossy - solar heat reflecting (cold curing polyurethane type)	BS 2X 34 with Def Stan 00-80
OTHER PAINTS AND VARNISHES	
Varnish for aeronautical purposes	BS 5X 17
Doping and finishing schemes for fabric covered aircraft	BS 2X 26
Low temperature stoving scheme for aeronautical purposes	BS X 31 (withdrawn)
Stoving enamel	DTD 56(Obsolescent)
OTHER ORGANIC PROTECTIVES	
Paint, pretreatment primer (etching primer)	BS 2X 32
Lubricant, solid film, heat cured JSD: ZX34; NATO CODE S.1738	MIL-L-46010
Pigmented varnish jointing compound	DTD 369(Obsolescent)
Pigmented jointing compound, non-hardening type	DTD 5604(Obsolescent)
Clear baking resin for surface sealing magnesium	DTD 5562(Obsolescent)
Temporary protectives	Reference to Corrosion

Title	Specification No.
	manual AP119A-0200-ID, Table 1
ORGANIC MATERIALS	
Phenolic resin bonded paper laminated sheets for electrical applications	BS EN 60893-2
Flexible insulating sleeving for electrical purposes	BS EN 60684
Flexible vulcanised fibre sheets	BS 3964(Withdrawn)
PVC insulation and sheath of electric cables	BS 6746(Withdrawn)
METALS	

Title	Specification No.
Cold reduced tinplate and coldreduced blackplate	BS EN 10202
GUIDES	
Guide for the prevention of corrosion of metals caused by vapours from organic materials	BS 7195
Metallic springs, protection against corrosion	DG-10
Packaging of defence material	Def Stan 81-14 Parts 1 to 6

**Proposed Text**

**TABLE 1**

**LIST OF PROTECTIVE MATERIALS AND PROCESSES  
 CALLED UP IN CLAUSE 4.3**

Note: Specification DTD 900 (Obsolescent) includes appendices listing proprietary materials and processes approved under its terms for aerospace use.

<b>Title</b>	<b>Specification No.</b>
PROCESSES	
Glossary of paint terms	BS BSI EN ISO 4618
Sprayed metal coatings on iron and steel articles	BS 2569 Parts 1 and 2 (Part 1 superseded by BS BSI EN ISO 2063)
Cleaning and preparation of metal surfaces	BSI BS ISO 27831 Part 2 – ferrous materials BSI BS ISO 27831 Part 1 – non-ferrous materials
Protection of aluminium alloys by sprayed metal coatings	BS EN ISO 2063
The pretreatment and protection of steel parts of specified maximum tensile strength exceeding 1450 N/mm <sup>2</sup>	Def Stan 03-4, SAE AMS 2759/9D

<b>Title</b>	<b>Specification No.</b>
Electroless nickel coating of metals	Def Stan 03-5
Painting of metal and wood	Def Stan 03-7 (Obsolescent)
Electro-deposition of tin	ASTM B545
Phosphate treatment of iron and steel	Def Stan 03-11
Chromate conversion coatings (chromate filming treatments) for aluminium and aluminium alloys	MIL-DTL-5541
Chrome and anodizing of aluminium and aluminium alloys	DEF STAN 03-24, MIL-A-8625 type I
Sulphuric acid anodizing of aluminium and aluminium alloys	MIL-A-8625 type II
Hard anodizing of aluminium and aluminium alloys	BS ISO 10074, MIL-A-8625 Type III
Electro deposition of chromium for engineering purposes	Def Stan 03-14, SAE AMS 2406





Title	Specification No.
	AMS2460 Class 2
Electro deposition of cadmium	BSI BS EN 2133 SAE AMS QQ-P-416
Electro deposition of zinc	SAE AMS 2402
Nickel plating (heavy)	SAE AMS 2423 "For new Design" SAE AMS QQ-N-290 Class 2
Protection of magnesium rich alloys against corrosion	SAE AMS M 3171
Identification colouring of rivets in aluminium and aluminium alloys	DTD 913(Obsolescent)
Process for the external finishing of radomes	DTD 926(Obsolescent)
Cadmium coating of very strong steel parts by vacuum evaporation.	SAE AMS C 8837 CEN EN 2535
Surface coating of parts by use of detonation, flame and plasma spraying processes	BS EN ISO 2063 "Thermal Metal Spraying"
Anodizing of titanium and titanium alloys	SAE AMS 2488
Electrodeposited cobalt/chromium carbide composite coatings	DTD 943(Obsolescent)
STANDARD PAINT SCHEMES	
Interior and exterior protective finishing scheme (cold curing epoxide type)	BS 2X 33 Primer, Def Stan 80-161 Finish
Exterior and interior finishing schemes - matt and glossy (cold curing polyurethane	BS 2X 34

Title	Specification No.
type) (Scheme 1 and Scheme 2)	
Selectively strippable acrylic finishing schemes - matt and gloss - for use on aircraft	Def Stan 80-214
External and interior finishing schemes - matt and glossy - solar heat reflecting (cold curing polyurethane type)	BS 2X 34 with Def Stan 00-80
OTHER PAINTS AND VARNISHES	
Varnish for aeronautical purposes	BS 5X 17
Doping and finishing schemes for fabric covered aircraft	BS 2X 26
Low temperature stoving scheme for aeronautical purposes	BS X 31 (withdrawn)
Stoving enamel	DTD 56(Obsolescent)
OTHER ORGANIC PROTECTIVES	
Paint, pretreatment primer (etching primer)	BS 2X 32
Lubricant, solid film, heat cured JSD: ZX34; NATO CODE S.1738	MIL-L-46010
Pigmented varnish jointing compound	MIL-C-11796, QPL 11796-31
Pigmented jointing compound, non-hardening type	MIL-PRF-8116
Clear baking resin for surface sealing magnesium	DTD 5562(Obsolescent)
Temporary protectives	Reference to Corrosion

Title	Specification No.
	manual AP119A-0200-ID, Table 1
ORGANIC MATERIALS	
Phenolic resin bonded paper laminated sheets for electrical applications	BS EN 60893-2
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