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NPS/001/001 - Technical Specification for Wood Poles and Associated Products for Overhead Lines

1. Purpose

This specification details the requirements of Northern Powergrid for the supply of wood poles and associated products for use on the overhead distribution network.

This document supersedes the following documents, all copies of which should be destroyed;

Document Reference	Document Title	Version	Published Date
NPS/001/001	Technical Specification for Wood Poles and Associated Products for Overhead Lines	4.1	July 2019

2. Scope

This specification details the required characteristics of wood poles and associated timber required for the construction and maintenance of LV, 11kV, 20kV, 33kV, 66kV and 132kV overhead lines for use on the Northern Powergrid distribution network.

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3. Specification

3.1. General

Poles shall be selected, fabricated and treated in accordance with ENA TS 43-88 except where detailed otherwise within this specification.

3.2. Clause by Clause Variations to ENA TS 43-88

Clause 5.3 Sizes and permissible deviations

The size of a pole shall be specified by the overall length, the nominal diameter at 1.5 metres from the butt and the nominal diameter at the tip. The poles shall comply with the minimum diameters and lengths quoted in appendix 1 after dressing and be of uniform taper or as otherwise specified on the pole fabrication drawing.

The permissible deviations are:

Length: -1% / +2%

Diameter: -0 / +40mm, unless otherwise declared by the manufacturer. All specific fabrication dimensions detailed on the pole fabrication drawings shall not exceed -2 / +2mm

Clause 5.4 Bending Strength and Modulus of Elasticity

All poles shall be sourced to provide the following characteristic bending strengths and modulus of rupture values:

Modulus of Elasticity - 10,054 Nmm²

Modulus of rupture - 53.35 Nmm²

Typically this has resulted in poles being sourced from forests located in mainland Europe north of the 60° latitude, however suppliers may offer poles from other regions of the world providing they can provide test evidence collected using the methodology detailed in ANNEX D of BSEN 14229, confirming that the characteristic bending strengths and modulus of rupture values are similar for the proposed alternative region.

Clause 7.0 Pole Fabrication

All pole fabrication shall take place prior to preservative treatments.

Appendix 2 provides details of the required pole height and grade together with its associated fabrication requirements.

Northern Powergrid has a requirement for a range of additional pole fabrications, to cater for company specific designs or to support special pole mounted plant. The company will submit copies of these pole fabrication drawings at the time of order placement.

Clause 8 Pole Marking

Pole marking shall be achieved by gouging, branding, routing or by the inclusion of a pre engraved and recessed marker disk where the disk is inserted at a distance 3m from the pole butt.

ENA TS 43-88 refers to Appendix D for pole marking details, out of the list shown on Appendix D the following items shall be marked on all poles.

Length and Class	Required
Gouge Mark (3 meters from pole butt)	Required
Species	Required
Country of Origin	Required
Type of Preservative Treatment	Required
Charge No.	Required

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Clause 10 Preservative Treatment

Unless specified otherwise within Appendix 2, all poles shall be treated with creosote.

Note:

A small selection of poles designated for use on Low voltage lines have been specified for treatment with water soluble preservative for use in special situations only.

Clause 11 Water soluble Preservative

Water soluble preservatives used shall conform to the performance requirements of Use Class 4 preservatives as defined in EN 599-1. For the purpose of this specification, determination of compliance with the performance requirements of EN 599-1 shall include data from the field trial test EN 252 and any of the additional local tests given in EN 599-1 applicable to the place of use of the product.

The following formulations of water soluble preservatives may be used.

Tanalith E 3494 – (Poles to be marked with E3494)

Clause 13.1 Stay and brace blocks

Wood Blocks shall be as specified in ENA TS 43-91 and 43-88 and treated with creosote or water soluble preservatives as detailed in clause 9.3

For permeable species, full sapwood penetration P8 is required, for resistant species P7 is required in any incised zone and P5 required elsewhere in accordance with the requirements of BS EN 350 Part 1.

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4. References

The products described within this specification shall comply with all current versions of the relevant International Standards, British Standard Specifications and all relevant Energy Networks Association Technical Specifications (ENATS) current at the time of supply.

4.1. External Documentation

Reference	Title
BS EN 14229	Structural timber – Wood poles for overhead lines
BS EN 252	Field test method for determining the relative protective effectiveness of a wood preservative
BS EN 350 - 1	Durability of wood and wood-based products. Natural durability of solid wood. Guide to the principles of testing and classification of natural durability of wood
ENA TS 43-12	Insulated Aerial Bundled Conductor Erection Requirements for LV Overhead Distribution Systems
ENA TS 43-30	Low Voltage Overhead Lines On Wood Poles
ENA TS 43-40	High voltage single circuit overhead lines on wood poles
ENA TS 43-88	Selection and Treatment of Wood Poles and Associated Timber for Overhead Lines
ENA TS 43-91	Stay Strands & Stay Fittings for Overhead Lines
ENS 599 - 1	Durability of wood and wood-based products. Efficacy of preventive wood preservatives as determined by biological tests. Specification according to use class

4.2. Internal Documentation

Reference	Title
n/a	

4.3. Amendments from Previous Version

Reference	Title
3.2	References updated throughout section and reference to AC-500 removed
Appendix 6	References updated
4.1	External documents updated

5. Definitions

Reference	Title
None	

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6. Authority for Issue

6.1. CDS Assurance

I sign to confirm that I have completed and checked this document and I am satisfied with its content and submit it for approval and authorisation.

		Date
Liz Beat	Governance Administrator	15/04/2024

6.2. Author

I sign to confirm that I have completed and checked this document and I am satisfied with its content and submit it for approval and authorisation.

Review Period - This document should be reviewed within the following time period;

Standard CDS review of 3 years?	Non Standard Review Period & Reason	
Yes	Period: n/a	Reason: n/a
Should this document be displayed on the Northern Powergrid external website?		Yes
		Date
Steven Salkeld	Policy and Standards Engineer	21/12/2023

6.3. Technical Assurance

I sign to confirm that I am satisfied with all aspects of the content and preparation of this document and submit it for approval and authorisation.

		Date
Ged Hammel	Senior Policy and Standards Engineer	22/12/2023

6.4. Authorisation

Authorisation is granted for publication of this document.

		Date
Paul Black	Head of System Engineering	09/01/2024

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Appendix 1 – Commonly used sizes for wood poles

Nominal Length	Light Poles		Medium Poles		Stout Poles		Extra Stout Poles	
	Minimum Nominal Diameter At Tip	Minimum Nominal Diameter At 1.5m From Butt	Minimum Nominal Diameter At Tip	Minimum Nominal Diameter At 1.5m From Butt	Minimum Nominal Diameter At Tip	Minimum Nominal Diameter At 1.5m From Butt	Minimum Nominal Diameter At Tip	Minimum Nominal Diameter At 1.5m From Butt
m	mm	mm	mm	mm	mm	mm	mm	mm
7	125	160	140	200				
8	125	170	145	210				
8.5	125	180	150	215	190	265		
9	125	180	150	220	190	275	230	295
9.5	125	185	150	225	190	280		
10	125	185	150	230	190	285	230	305
10.5	125	190	150	235	190	290		
11	125	195	150	240	190	295	245	320
11.5	125	200	150	245	190	300		
12	125	200	150	250	190	305	245	335
13	130	210	160	260	195	320	245	350
14			160	275	195	335	245	365
15			165	290	195	350	245	375
16			170	305	200	365	250	390
17			180	320	200	375	250	415
18			180	330	200	390	250	415
20			180	360	200	415	260	435
22			190	380	200	435	260	470
24					200	470	TBA	TBA

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Appendix 2 – Pole Fabrication and Arrangement Schedule

Item Ref.	Grade	Single Or 'H'	Length (m)	Stock Code	Pole Fabrication Drawing Number	Preservative
LV Poles to ENA TS 43-12 for ABC & ENA TS 43-30 for Open Wire Construction						
1	Med	Single	9.0	237435	1091193301 sht3	E3494
2	Med	Single	10.0	237454	1091193301 sht3	E3494
3	Med	Single	11.0	237469	1091193301 sht3	E3494
4	Med	Single	12.0	212506	1091193301 sht3	E3494
5	Stout	Single	9.0	212944	1091193301 sht3	E3494
6	Stout	Single	10.0	213157	1091193301 sht3	E3494
7	Stout	Single	11.0	213538	1091193301 sht3	E3494
8	Stout	Single	12.0	213843	1091193301 sht3	E3494
9	Stout	Single	13.0	237470	1091193301 sht3	E3494
10	Stout	Single	14.0	237471	1091193301 sht3	E3494
11	Med	Single	9.0	237422	1091193301 sht3	Creosote
12	Med	Single	10.0	237423	1091193301 sht3	Creosote
13	Med	Single	11.0	237424	1091193301 sht3	Creosote
14	Med	Single	12.0	212525	1091193301 sht3	Creosote
15	Stout	Single	9.0	212926	1091193301 sht3	Creosote
16	Stout	Single	10.0	213127	1091193301 sht3	Creosote
17	Stout	Single	11.0	213528	1091193301 sht3	Creosote
18	Stout	Single	12.0	213829	1091193301 sht3	Creosote
19	Stout	Single	13.0	237430	1091193301 sht3	Creosote
20	Stout	Single	14.0	237431	1091193301 sht3	Creosote
HV Poles to ENA TS 43-40 – Medium Grade						
21	Med	Single	9.0	237331	1000434001	Creosote
22	Med	Single	10.0	237346	1000434001	Creosote
23	Med	Single	11.0	237350	1000434001	Creosote
24	Med	Single	12.0	237365	1000434001	Creosote
HV Poles to ENA TS 43-40 – Stout Grade						
25	Stout	Single	10.0	237384	1000434001	Creosote
26	Stout	Single	11.0	237399	1000434001	Creosote
27	Stout	Single	12.0	237401	1000434001	Creosote
28	Stout	Single	13.0	237416	1000434001	Creosote
29	Stout	Single	14.0	237420	1000434001	Creosote
HV Poles to ENA TS 43-40 – Stout H Grade						
30	Stout	'H'	10.0	213116	434002	Creosote
31	Stout	'H'	11.0	237492	1000434002 sht 2	Creosote
32	Stout	'H'	12.0	213975	434002	Creosote
33	Stout	'H'	13.0	214189	434002	Creosote
34	Stout	'H'	14.0	214379	434002	Creosote
Stout Grade single Poles with fabrication drawing as stated at time of order						
35	Stout	Single	9.0	233573	Various	Creosote
36	Stout	Single	10.0	232713	Various	Creosote
37	Stout	Single	11.0	232605	Various	Creosote
38	Stout	Single	12.0	232639	Various	Creosote
39	Stout	Single	13.0	232643	Various	Creosote
40	Stout	Single	14.0	232658	Various	Creosote
41	Stout	Single	15.0	232662	Various	Creosote

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Item Ref.	Grade	Single Or 'H'	Length (m)	Stock Code	Pole Fabrication Drawing Number	Preservative
42	Stout	Single	16.0	232728	Various	Creosote
43	Stout	Single	17.0	232677	Various	Creosote
44	Stout	Single	18.0	232681	Various	Creosote
45	Stout	Single	20.0	232696	Various	Creosote
Medium Stout Grade Single Poles with fabrication drawing as stated at time of Order						
46	M/Stout	Single	10.0	237510	1000434001	Creosote
47	M/Stout	Single	11.0	237511	1000434001	Creosote
48	M/Stout	Single	12.0	237512	1000434001	Creosote
49	M/Stout	Single	13.0	237513	1000434001	Creosote
Medium Twin Bolted Wood Poles						
50	Medium	Single	10.0	237515	1000434001 sht3	Creosote
51	Medium	Single	11.0	237516	1000434001 sht3	Creosote
52	Medium	Single	12.0	237517	1000434001 sht3	Creosote
53	Medium	Single	13.0	237518	1000434001 sht3	Creosote
Extra Stout Grade Single Poles with fabrication drawing as stated at the time of order						
54	E/Stout	Single	10.0	232810	Various	Creosote
55	E/Stout	Single	11.0	232811	Various	Creosote
56	E/Stout	Single	12.0	232802	Various	Creosote
57	E/Stout	Single	13.0	232817	Various	Creosote
58	E/Stout	Single	14.0	232836	Various	Creosote
59	E/Stout	Single	15.0	232944	Various	Creosote
60	E/Stout	Single	16.0	232925	Various	Creosote
61	E/Stout	Single	17.0	232812	Various	Creosote
62	E/Stout	Single	18.0	232813	Various	Creosote
63	E/Stout	Single	20.0	232815	Various	Creosote
Stout grade H poles with fabrication drawing as stated at the time of order						
64	Stout	'H'	9.0	232839	Various	Creosote
65	Stout	'H'	10.0	233843	Various	Creosote
66	Stout	'H'	11.0	233877	Various	Creosote
67	Stout	'H'	12.0	233896	Various	Creosote
68	Stout	'H'	13.0	233909	Various	Creosote
69	Stout	'H'	14.0	233913	Various	Creosote
70	Stout	'H'	15.0	233947	Various	Creosote
71	Stout	'H'	16.0	233932	Various	Creosote
72	Stout	'H'	17.0	233951	Various	Creosote
73	Stout	'H'	18.0	233966	Various	Creosote
74	Stout	'H'	20.0	232696	Various	Creosote
75	Stout	'H'	22.0	233985	Various	Creosote
76	Stout	'H'	24.0	215038	Various	Creosote
Woodhouse Mast Replacement Medium Grade Rutter Poles						
77	Medium	Rutter	12.0	233986	1091390008 sht2	Creosote
78	Medium	Rutter	13.0	233987	1091390008 sht2	Creosote
79	Medium	Rutter	14.0	233988	1091390008 sht2	Creosote
80	Medium	Rutter	15.0	233989	1091390008 sht2	Creosote
81	Medium	Rutter	16.0	233990	1091390008 sht2	Creosote
82	Medium	Rutter	17.0	233991	1091390008 sht2	Creosote
Woodhouse Mast Replacement Stout Grade Rutter Poles						
83	Stout	Rutter	12.0	233992	1091390008 sht2	Creosote

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Item Ref.	Grade	Single Or 'H'	Length (m)	Stock Code	Pole Fabrication Drawing Number	Preservative
84	Stout	Rutter	13.0	233993	1091390008 sht2	Creosote
85	Stout	Rutter	14.0	233994	1091390008 sht2	Creosote
86	Stout	Rutter	15.0	233995	1091390008 sht2	Creosote
87	Stout	Rutter	16.0	233996	1091390008 sht2	Creosote
88	Stout	Rutter	17.0	233997	1091390008 sht2	Creosote
Woodhouse Mast Replacement Extra Stout Grade – Single Poles						
89	E/Stout	Single	12.0	233999	1091390003 sht2	Creosote
90	E/Stout	Single	13.0	234000	1091390003 sht2	Creosote
91	E/Stout	Single	14.0	234001	1091390003 sht2	Creosote
92	E/Stout	Single	15.0	234002	1091390003 sht2	Creosote
93	E/Stout	Single	16.0	234003	1091390003 sht2	Creosote
94	E/Stout	Single	17.0	234004	1091390003 sht2	Creosote
Woodhouse Mast Replacement Stout H Grade Poles						
95	E/Stout	H	12.0	234005	1091390018 sht2 and 1091390019 sht2	Creosote
96	E/Stout	H	13.0	234006	1091390018 sht2 and 1091390019 sht2	Creosote
97	E/Stout	H	14.0	234007	1091390018 sht2 and 1091390019 sht2	Creosote
98	E/Stout	H	15.0	234008	1091390018 sht2 and 1091390019 sht2	Creosote
99	E/Stout	H	16.0	234009	1091390018 sht2 and 1091390019 sht2	Creosote
100	E/Stout	H	17.0	234010	1091390018 sht2 and 1091390019 sht2	Creosote
Standard Multi fabrication Poles						
101	Stout	Single	11.0	237488	1000434010 sht 2	Creosote
102	Stout	Single	11.0	237505	1091080864 sht3 - 1	Creosote
103	Stout	Single	11.0	237613	1091080864 sht3 -2	Creosote
104	Stout	Single	11.0	237098	1091070819 sht 4	Creosote
105	Stout	'H'	11.0	237100	1091080862 sht 2	Creosote
106	Stout	Single	9.0	237473	1091080864 sht 3	Creosote
107	Stout	Rutter	10.0	213199	Y003X3102	Creosote
Associated Products						
108	Wood Brace Block, 2600x250x125mm, of rectangular section to EA Technical Specification 43-91 drawing 439112			217505	ENA TS 43-91 Drawing 439112	E3494
109	Wood Brace Block, 3000x300x150mm, of rectangular section to EA Technical Specification 43-91 drawing 439112			217513	ENA TS 43-91 Drawing 439112	E3494
110	Wood Balk, 1300x250x125mm Drilled 1 Hole			235124	439103 Type 2	E3494
111	Wood Balk, 2600x250x125mm Drilled 4 Hole			234668	439112 Type 1	E3494
112	Wood Balk, 3000x250x125mm Drilled 2 Hole			234704	439112 Type 2	E3494

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Item Ref.	Grade	Single Or 'H'	Length (m)	Stock Code	Pole Fabrication Drawing Number	Preservative
113	Wood Brace Block, 3050x200x100mm, of rectangular section to EA Technical Specification 43-91			217497	1091010668	E3494
114	Wood Baulk, 1300x250x125mm Drilled 2 Hole M20 Dia. Bolt C/W Nut and 2 washers			234475	1091010650 sht 2	E3494
115	Wood Baulk, 3600x250x125mm Drilled 2 Hole			234507	1091010650 sht 3 item 8	E3494
116	Wood Baulk, 3600x250x125mm Drilled 2 Hole			234653	1091010650 sht2	E3494
117	Wood Block, 2500x250x125. Used on 132kV OHL9 poles to Drawing 1091380006			346581	1091010670 Sht 11	E3494

*** See Appendix C for details of the drawings covered by this specification.

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Appendix 3 – Fabrication Drawings Covered by this specification

Standard Pole Use	Fabrication Drawing (Including Drawing Modification Letter)
<u>LV Poles</u> Combined fabricated pole for use with ABC networks - (ENA TS 43-12) and historical Open Wire Networks (ENA TS 43-30) ABC only Fabrication Drawing - ENA TS 43-12	1091193301 sht3 mod L 1091193301 sht4 mod J
<u>HV Poles - Fabricated to ENA TS 43-40</u> Single Poles 'H' Poles Single Pole Terminal (min 210mm Pole top dimension after fabrication)	1000434001 sht1 1000434002 sht1, mod D 1000434010 sht2, mod E
<u>Multi-Fab Pole Arrangements</u> Multi-Fabricated 'H' Pole Multi-Fabrication Single Terminal Pole Fabrication drawing - Single Pole Terminal Fabrication drawing - Single Pole Terminal Single Phase Totem Pole S/S 3 Phase 'H' Totem Pole S/S Short Legged 'H' pole S/S	1000434002 sht2, mod A 1000434010 sht2, mod E 1000434010 sht7, mod A 1000434010 sht8, mod A 1091070819 sht4 mod C 1091080862 sht2 mod L 1091080864 sht3 mod
<u>EHV Poles Fabricated to</u> 66kV – OHL4 Single Pole 66kV – OHL4 'H' Pole 66/132kV – OHL9 Single Pole (Int) 66/132kV – OHL9 Single Pole (Sect/Angle) 66/132kV – OHL9 'H' Pole (Sect/Angle) 66/132kV – OHL9 'H' Pole (Term) CE/C/37 – 'H' Poles CE/C/37 – 'H' Cable Terminal Woodhouse (Rutter) Intermediate Woodhouse (Section pole) Woodhouse (Term H pole) Woodhouse (Section H pole)	1091231186 sht1 1091231187 sht1 mod N 1091380006 sht2 mod D 1091380005 sht2 1091380003 sht2 mod C 1091380004 sht2 mod C 1091380011 sht1 1091380009 sht1 1091390008 sht2 mod C 1091390003 sht2 mod F 1091390018 sht2 mod A 1091390019 sht2 mod G
Rutter Pole & Pole Key	Y003X3102 1091380007 sht1
*Stout, Extra Stout and Stout 'H' poles with various pole fabrications stated at the time of order submission	Various
Foundation Blocks ENA TS 43-91 Type 1 & 2 foundation blocks ENA TS 43-91 'H' pole foundation blocks Special 'H' pole foundation blocks Special 'H' pole foundation blocks CE/C/37 Brace Blocks	1000439103 sht1, mod A 1000439112 sht2, mod D 1091010650 sht2 mod C 1091010650 sht3 mod F 1091010668 sht1

* Note

The Company has a requirement for a range of additional pole fabrications, to cater for in house company design standards or to support special pole mounted plant. The Company will submit copies of these pole fabrication drawings at the time of order placement.

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Appendix 4 - Addendum to Supplier Requirements

Bleeding Poles

When poles are identified as defective due to bleeding, the Company will notify the Supplier at the earliest opportunity. Following notification the Supplier will, without prejudice to or payment from the Company, arrange to collect, clean and return those poles to the Company. This work must be carried out within one week of the Supplier receiving notification from the Company.

Species of wood utilised for Poles

Poles should only be obtained from sustainable forests. Tenderers should state the country of origin of poles and provide verification statements confirming the sustainable management of source forests. The successful tenderer will be required to provide annual statistics detailing:

- Countries and Latitude of pole origin
- Numbers of poles from each country
- Details of source forest sustainability management schemes.

Water Soluble Preservative Treated Poles

Suppliers are requested to provide information, including a safety data sheet, for the proposed preservation treatment.

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Appendix 5 – Logistical Requirements

Disposal of used poles

Tenderers shall indicate the services they provide to collect and dispose of used wood poles and blocks.

Stockholding

The tenderers shall provide details of their pole stocks that would be available to the company during abnormal occurrences and also details of their potential delivery times during these abnormal occurrences.

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Appendix 6 – Self Certification Conformance Declaration

This conformance declaration is to be completed.

Conformance declaration codes

N/A = Clause is not applicable/appropriate to the product

Cs1 = The product conforms fully with the requirements of this clause

Cs2 = The product conforms partially with the requirements of this clause

Cs3 = The product does not conform to the requirements of this clause

Cs4 = The product does not currently conform to the requirements of this clause, but the manufacturer proposes to modify and test the product in order to conform.

Instructions for completion

- When Cs1 code is entered no remark is necessary
- When any other code is entered the reason for non-conformance shall be entered
- Prefix each remark with the relevant 'BS EN' or 'EATS' as appropriate

Manufacturer:

Product Reference:

Name:

Signature:

Date:

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TABLE 1

BS EN 14229			EATS 43 – 88			
Clause / Sub-clause	Requirement	Conformance code	Clause / Sub-clause	Requirement	Conformance code	Remarks
5.1	Species ¹		4.1	Species for Poles		
			4.2	Timbers other than for Poles		
5.2.1	Felling		5.2.1	Tree Felling ²		
5.3	Sizes and permissible deviations ³		5	Requirements ⁴		
5.4	Bending Strength and modulus of elasticity		5.4	Bending Strength and modulus of elasticity		
5.2.2	Handling of wood		6	Seasoning		
			10.2	Condition of Timber (prior to treatment with Creosote)		
5.7.1	General ⁵		10.3	Creosote Treatment Cycle		
5.7.2	Wood Preservative ⁶		10.4	Creosote Quality		
5.7.1/5.7.3/5.7.4	Preservative Treated Wood Poles		10.5	Quality Control of Preservative Treatment		
7	Sampling					
BS EN 14229			EATS 43 – 88			
Clause / Sub-clause	Requirement	Conformance code	Clause / Sub-clause	Requirement	Conformance code	Remarks
5.7.3	Penetration requirement		10.5.2	Creosote penetration		
5.7.4	Retention requirement		10.5.3	Creosote Retention		
			10.6	Bleeding Poles (Creosote)		
			10.8	Maintenance of Pole Condition (Creosote)		

TABLE 2

¹ Species within EN 14229 reflect broad European practice that may not be acceptable in the UK. The permitted species within EATS 43-88 reflects historical UK practice and represents a condensed list of the permitted species within EN 14229.

² EATS 43-88 places additional requirements on the maximum period between felling and delivery to supplier's works.

³ Subject to the additional requirements of Clause 5.1.3 of EATS 43-88 [Table3 of this Appendix]

⁴ EATS 43-88 sets limit deviations for the visual grading rules laid down in BS EN 14229

⁵ Treatment Cycle appropriate to Creosote is not defined in BS EN 14229 but the principles of Clause 5.2.1 apply.

⁶ Subject to the requirements of BS EN 13991 for a Type B oil.

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BS EN 14229			EATS 43-88 Part 1			
Clause / Sub-clause	Requirement	Conformance code	Clause / Sub-clause	Requirement	Conformance code	Remarks
5.7.1	General		11.1	General – Treatment process		
5.6	Untreated wood poles		11.2	Condition of Timber (prior to treatment with water soluble preservatives)		
5.7.2	Wood Preservative		11.3	Types of Water Soluble Preservative		
5.7.2/5.7.3 /5.7.4	Preservative Treated Wood Poles		11.4	Water Soluble Preservative Loading and Tests		
			11.5	Drying and Maintenance of Pole Condition (Water Soluble Preservative)		
7.3	Factory Production and Control					

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Appendix 7 - Technical Information Check List

The following information shall be provided by the supplier for technical review by Northern Powergrid. Additional information shall be provided if requested.

Requirement	Provided (Y/N)
Appendix 4 – Completed Addendum to supplier requirements	
Appendix 5 – Completed logistics requirements - Packaging/delivery information	
Appendix 6 – Completed self-certification conformance declaration	
Declaration of technical non-conformances	
Type test evidence	
Routine test plan (example)	