Part of the Energy Queensland Group

Standards Alert

Subject:	**StdsA509 New Crossarm Suppliers and Changes for Energy Queensland**	**Control Ref No:**	StdsA509
		Date Issued:	27/09/2019
		Supersedes:	N/A
For Policy/Procedure/Manual:	**Overhead Design and Construction Manuals, Overhead Design Programs**	**Expiry Date:**	31/12/2020
Originating Dept:	**Asset Standards:- Line Standards**		
Target Audience:	**EQL**		

1. Amendment Record

Version	Date	Author	Amendments
Initial	27/09/2019	P Relf / F Zaini	Initial Issue

2. Objective

This standards alert is to advise that Energy Queensland has awarded a new composite crossarm contract. There are also some changes to the crossarms that have occurred as part of the consolidation exercise between Energex and Ergon.

3. Introduction

Energy Queensland went to tender for composite crossarms with technical specification EQTS 07-02-03.

This technical specification combined the previous Energex and Ergon Composite crossarm specifications. While preparing the technical specification, similar crossarms were aligned and duplication removed across the range.

4. Suppliers

The new composite crossarm tender has been awarded between Wagners, RMS (Supplier of the PUPI crossarm) and PLP (Preformed Line Products).

5. Current Composite cross arm range

The following table is a list of the new crossarm range across EQL-

Item No.	Stockcodes		Description	Supplier	
	North South	South East		North South	South East
1	2419091		11/22/33kV Fuse/Link 2.4m Pole Mount	Wagners	
2	2430353	22277	11kV Strain / Termination 2.5m Pole Mount Double Arm	RMS	RMS
3	2430361		22/33kV Strain / Termination 2.7m Pole Mount Double Arm	RMS	
4	2419083		22/33kV Intermediate 2.7m Pole Mount	Wagners	

Item No.	Stockcodes		Description	Supplier	
	North South	South East		North South	South East
5	2419075	19813	11kV Intermediate 2.525m Pole Mount	Wagners	RMS
6	2437630	19799	LV Intermediate 2.55m composite fibre crossarm	PLP	Wagners
7	2437648	21976	LV Strain/Termination 2.55m composite fibre crossarm	Wagners	Wagners
8	2434421		Intermediate 110kV Wishbone Construction 3 piece set with 4200mm Top Crossarm, 3758mm Mid crossarm & 1243mm Bottom arm	Wagners	
9	2434439		Intermediate 110kV Wishbone Construction 3 piece set with 4139mm Top Crossarm, 3758mm Mid crossarm & 1243mm Bottom arm	Wagners	
10	2444008		66kV Composite Fibre Wishbone Construction, 0-7º angle 2 piece set. 3500mm top crossarm & 2520mm bottom crossarm.	Wagners	
11	2444016		Composite Fibre Wishbone Construction, 7-25º angle crossarm set. 3500mm top crossarm & 1920mm brace	Wagners	
12	2439750		Composite Fibre Strain /Termination Crossarm Construction 3300mmx125sq	Wagners	
13	2435246		Composite Fibre Suspension/Deviation Crossarm Construction 3300mmx100sq	Wagners	
14	2434041		Composite Fibre, Predrilled, 3460 x 125 x 125mm, 11kV, Suspension	Wagners	
15	2444081		Composite Fibre, Predrilled, 2400 x 100 x 100mm, 22/33kV, Intermediate, Double Circuit	Wagners	
16	2456531		Composite Fibre predrilled 3300x125x125 for rural delta	Wagners	
17	2456564		Composite Fibre predrilled 2900x125x125 for delta	Wagners	
18	2456572		Composite Fibre 2500x125x125 for intermediate suspension top arm	Wagners	
19	2456580		Composite Fibre 3200x125x125 for intermediate suspension bot arm	Wagners	
20	2456556		Composite Fibre 1565x125x125 intermediate angle buck arm	Wagners	
21	2434447		125x125 wishbone set (4010, 3271 and 1497 long arms) intermediate	Wagners	
22	2459360		Composite Fibre 3620x125x125 suspension angle 0-4.5 deg top arm	Wagners	
23	2459378		Composite Fibre 1860x125x125 suspension angle 0-4.5 deg buck arm	RMS	
24	2459386		Composite Fibre 3300x125x125 for rural intermediate/delta	Wagners	
25	2459394		Composite Fibre 2800x125x125 for rural intermediate 0-4.5 deg angle	Wagners	
26	2467504		Composite Fibre 3200x125x125 delta strain for horizontal twin arm	Wagners	
27	2467512		Composite Fibre 4900x125x125 suspension single horizontal arm to double pole	Wagners	
28	2467538		Composite Fibre 4900x125x125 strain twin horizontal arm to double pole	Wagners	
29	2467546		Composite Fibre 6100x125x125 strain twin horizontal arm to double pole	Wagners	
30	2467553		125x125 wishbone set (3100 and 1920 long arms) for suspension angle	Wagners	

Item No.	Stockcodes		Description	Supplier	
	North South	South East		North South	South East
31	2467611		Composite Fibre 3000x125x125 for suspension angle 20-30 deg	Wagners	
32	2467629		Composite Fibre 2235x125x125 top arm for intermediate construction	Wagners	
33	2467645		Composite Fibre 3320x125x125 bottom arm for 0-7 deg angle construction.	Wagners	
34		19897	Composite Crossarm LVPM, LVUM, LVSM & LVTM Manufacturing & Fitting Detail		Wagners
35		20053	Composite Crossarm 11SM, 11 TM Manufacturing & Fitting Detail		Wagners
36		21251	Composite Crossarm LVPTU, LVPTS, LVPTT Manufacturing & Fitting Detail		Wagners
37		21306	Composite Crossarm PT Station Isolation Crossarm Manufacturing & Fitting Detail		RMS
38		21975	Composite Crossarm LVS2-CCT, LVT2-CCT Manufacturing & Fitting Detail		Wagners
39		21250	Composite Crossarm Long Span LVS2, LVT2 Manufacturing & Fitting Detail		Wagners
40		22792	Composite Crossarm 11ABC1, 11ABC2		Wagners
41		22818	Composite Crossarm 11ABC3, 11ABC4 Manufacturing & Fitting Detail		Wagners
42	2469161		1500x100x100 LV Transformer Fuse arm	RMS	
45		24090	125x125 Composite Fibre Crossarm 11SU		Wagners
46		24091	125x125 Composite Fibre Crossarm 11SUA,11SUAH, 33P and 33TP		Wagners
47		24092	125x125 Composite Fibre Crossarm 33PO		Wagners
48		24093	125x125 composite Fibre Crossarm 33SU		Wagners
49		24094	125x125 Composite Fibre Crossarm 33SUA		Wagners
50		24095	125x125 Composite Fibre Crossarm 33SUAH		Wagners

6. Composite Crossarm changes

The following is a list of changes from the existing composite crossarms in the new contract as part of the consolidation exercise between Ergon and Energex.

6.1. North South Region

The merged crossarms have slightly increased in length to accommodate the Energex conductor spacing. This is not expected to have any material impact on the use of these arms to replace existing constructions in the North/South regions.

6.2. Southeast Region

SC22310 (100x100mm) has been deleted and replaced with SC22277 (125x125mm). SC22310 was used for the 11SC and the 11TC. All 11kV strain and termination constructions are to now use the 11SC2 and 11TC2 constructions going forward.

Also note that the 11kV strain arms now come with 2 attachment holes at the outer attachment points. This is to suit some North/South construction types, SEQ staff are to only use the outer holes for shackle and termination constructions. Refer Figure 1 below.

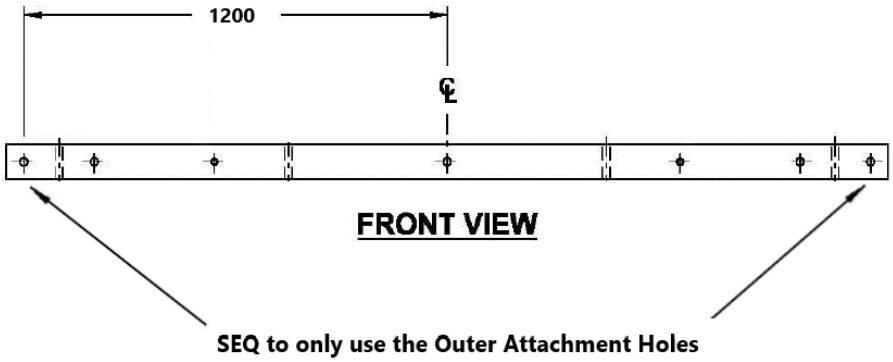

Figure 1 – 11 kV Strain Crossarm Arrangement

The armbrace holes in the 11kV and 33kV crossarms have also been moved out to match the North/South 11kV and 33kV crossarms. This will require a change in armbrace used for the 11kV and 33kV crossarms. In matching the North/South, the 1000mm arm brace (SC2560) will now be used on all HV crossarms. The 650mm arm brace (SC2559) will now only be for LV crossarms. The CU's will be updated; with SET152-31 replacing SET152-11 and SET152-21 in the relevant 11kV and 33kV crossarm CU's. On older concrete poles where the armbrace holes don't line up, crews are to use SET151-3C to attach the armbrace to the pole.

7. Updates to the Design Programs

Both CATAN and the line design spreadsheets in the North/South are being progressively updated to include the new crossarm strengths, phase separations and conductor locations. No major changes are required for the SEQ region.

8. Update to Manuals

8.1. Ergon OHCM Updates

The Ergon Energy Overhead Construction Manual is being updated with the changes and an alert will be published when the Intranet and Internet versions are online.

8.2. Energex OHCM Updates

Energex OHCM Pages 4-79, 4-80 and 8-52 are being updated to reflect SC22310 being made obsolete.

Energex OHCM Sections 4 and 5 are being updated with SET152-31 replacing SET152-11 and SET152-21 in the relevant 11kV and 33kV crossarm CU's.

11PES, 11PET riser constructions – Manufacturing drawing will be updated to have holes available for both new and existing arm brace arrangements.

Manuals will be updated progressively with the changes in this alert, with the latest versions of the Overhead Design and Construction Manuals available via the Asset Standards intranet site or via the RED/Process Zone document system for internal staff.

The current manuals are available to external service providers via the internet. The Manuals are uncontrolled documents when printed.

9. Further Information

For further information, please contact-

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