



Assets Planning and Delivery Group  
Engineering

**APPROVED PANEL OF SWITCHBOARD  
MANUFACTURERS  
FOR  
THE SUPPLY OF LOW VOLTAGE  
SWITCHBOARDS**

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**DETAILS SUMMARY**

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VERSION 1  
REVISION 10

FEBRUARY 2024

## REVISION STATUS

The revision status of this standard is shown section by section below. It is important to note that the latest revisions including additions, deletions and changes to this version of the standard are all included in this table.

REVISION STATUS						
SECT.	VER./REV.	DATE	PAGES REVISED	REVISION DESCRIPTION (Section, Clause, Sub-Clause)	RVWD.	APRV.
1	1/0	15.07.07	All	New Version	NHJ	AAK
	1/1	02.06.09	4	Section a and b revised	NHJ	AAK
	1/2	7.11.13	4	Additions/Corrections	NHJ	SE
	1/3	22.08.16	4	Sec1(a) new	NHJ	MSP
	1/4	10.10.16	4	Sec1(e) removed	NHJ	MSP
	1/5	14.11.17	4	Sec1 updated	NHJ	MSP

2	1/0	15.07.07	All	New Version	NHJ	AAK
	1/2	7.11.13	4	Additions/Corrections	NHJ	SE
	1/3	22.08.16	4	Sec2(a) amended and Sec2(b) new	NHJ	MSP
	1/4	10.10.16	4	Sec2(a) and (c) amended	NHJ	MSP
	1/5	14.11.17	4	Sec2(d) Type test changed to "Design Verification"	NHJ	MSP

3	1/0	15.07.07	All	New Version	NHJ	AAK
	1/2	7.11.13	5	Additions/Corrections	NHJ	SE
	1/5	14.11.17	5	Sec3(a), (b), (f), (g): Type test changed to "Design Verification"	NHJ	MSP

4	1/0	15.07.07	All	New Version	NHJ	AAK

5	1/0	15.07.07	All	New Version	NHJ	AAK
	1/2	7.11.13	5	Additions/Corrections	NHJ	SE

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	1/1	02.06.09	6	Section 6.1 revised	NHJ	AAK
	1/2	7.11.13	6	Additions/Corrections	NHJ	SE

7	1/0	15.07.07	All	New Version	NHJ	AAK
	1/2	7.11.13	7	Additions/Corrections	NHJ	SE
	1/3	22.08.16	7	Sec7 updated	NHJ	MSP
	1/5	14.11.17	7	Title and Business Unit name updated	NHJ	MSP

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<b>SECT.</b>	<b>VER./REV.</b>	<b>DATE</b>	<b>PAGES REVISED</b>	<b>REVISION DESCRIPTION (Section, Clause, Sub-Clause)</b>	<b>RVWD.</b>	<b>APRV.</b>
8	1/1	02.06.09	All	Panels C and D revised	NHJ	AAK
	1/2	7.11.13	9-10	Additions/Corrections	NHJ	SE
	1/3	22.08.16	9-10	Appendix A updated	NHJ	MSP
	1/4	10.10.16	10	Panel C revised and Panel D deleted	NHJ	MSP
	1/5	14.12.17	10	Changes to Type C Panel and new supplier added	NHJ	MSP
	1/6	May 2019	1	Panel C revised	EdG	NHJ
	1/7	January 2021	11-13	Contact information updated in Appendix A	NHJ	NHJ
	1/8	October 2021	11-13	Panels A, B and C revised	EdG	EdG
	1/9	August 2022	11-13	Panels A, B and C revised	SWG	TL
	1/10	Feb 2024	11-13	Emails updated	EdG	EdG

# APPROVED PANEL OF LV SWITCHBOARD MANUFACTURERS DETAILS SUMMARY

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# 1 INTRODUCTION

The Corporation required assurances that Low Voltage switchboards being installed in its assets will not present a safety hazard to personnel and will be fit for purpose in all other respects. To this end, the Corporation issued an Invitation to Qualify to switchboard manufacturers to establish a Panel of approved suppliers, separated for each of switchboard type designated below in accordance with the nominated Type Specification:

- (a) Type Specification for Minor Low Voltage Switchboards - Design Standard DS 26-36 - restricted to switchboards with a rated capacity of  $\leq 100$  Amp (Switchboard Type A1)
- (b) Type Specification for Minor Low Voltage Switchboards - Design Standard DS 26-10 - restricted to switchboards with a rated capacity of  $>100$  Amp to  $\leq 220$  Amp (Switchboard Type A2)
- (c) Type Specification for Extended Range Minor Low Voltage Switchboards - Design Standard DS 26-11 - restricted to switchboards with a rated capacity of  $>220$  Amp to  $\leq 440$  Amp (Switchboard Type B)
- (d) Type Specification for Large Low Voltage Switchboards - Design Standard DS 26-17 (Switchboard Type C)

These “Type Specifications”, along with the Type Specification DS 26-09 General Requirements, cover the requirements for all LV switchboards  $\leq 440$  Amps

# 2 PANEL CATEGORIES

- (a) Each supplier has been selected as an approved supplier for low voltage switchboards for one or more of Switchboard Types A1, A2, B and C. The relevant low voltage switchboards will be sought from the selected Suppliers of the Panel. The Supplier classification together with the respective applicable restrictions and qualifications against each category is listed at Appendix A
- (b) Switchboard Types A1, A2 and B are also covered by a “Technology License Agreement”, between the switchboard manufacturer and the Corporation, whereby the Corporation provides the intellectual property necessary for the manufacturers to manufacture switchboards and cubicles for projects. Ownership of the intellectual property is vested in the Principal
- (c) The Supplier guarantees that all Low Voltage switchboards supplied under the Panel agreement will consist of Design Verified (previously Type Tested or Partially Type Tested), and where stated Arc Fault Tested Switchgear Assemblies in accordance with the requirements of the relevant Type Specification
- (d) The Corporation's project specifications for Low Voltage switchboards of the above type will be based closely on the above type specifications. Main circuit equipment detailed on the project drawings will be specified by required performance only and not by make and model. Main circuit equipment supplied by the switchboard manufacturer is required to be of the make and model as specified in the relevant Design Verification (previously Type Tested or Partially Type Tested) tests

### **3 NATURE OF THE PANEL AGREEMENT**

- (a) Switchboards are required to be designed and manufactured under an approved Quality System, which includes appropriate design controls so as to ensure that the Design Verification (previously Type Tested or Partially Type Tested) tests quoted remain valid for the switchboards being supplied
- (b) In addition to any quality audits of the supplier's Quality System carried out by the supplier's Accredited QA. System, the Corporation will carry out audits at intervals not less than two years in order to satisfy itself that appropriate design controls are in place and that the Design Verification (previously Type Tested or Partially Type Tested) tests quoted remain valid for the switchboards being supplied. The performance of suppliers on the approved supplier Panel for Low Voltage switchboards will be reviewed on the basis of the results of the above audits and the quality and timeliness of equipment provided by the supplier under project contracts
- (c) The Corporation reserves the right to remove Suppliers from approved Low Voltage switchboard supplier Panel should a performance review indicate unsatisfactory performance
- (d) Any Supplier removed from the Panel may apply for reinstatement or reclassification after 12 months if the Supplier has made substantial progress towards addressing the shortcomings identified. The Corporation, at its sole discretion, may then supply a Registration of Interest document to the Supplier for completion
- (e) Panel Suppliers will be required to produce designs in accordance with the Water Corporation Electrical Design Standards and Type Specifications relevant to the particular Panel as amended from time to time by the Corporation and advised to the Supplier
- (f) Before any changes are made to any of the Design Standards covering the specified type specifications, these will be discussed with the members of the approved Low Voltage switchboard supplier Panel so as to minimise the need for any additional Design Verification (previously Type Tested or Partially Type Tested) testing
- (g) The supplier shall keep the Corporation informed of any changes to their switchboard design and Design Verification (previously Type Tested or Partially Type Tested) test certification. These changes shall be submitted to the Corporation in writing complete with all relevant documentation and substantiation
- (h) The switchboard manufacturer has an obligation to refer any deviations from the type specifications being requested by a third party to the Corporation's representative for resolution as required
- (i) Warranty is 12 months from Installation or 18 months from Date of Delivery, whichever occurs first

### **4 TERM OF THE PANEL AGREEMENT**

The term of the Panel Agreement is indefinite.

### **5 ADDITIONS TO THE PANEL**

Additional applicants may be appointed to the Panel subject to completing a Registration of Interest document and being assessed as suitable by the Corporation. A Panel member may also similarly apply to be reclassified against any Switchboard Type category.

## 6 REQUEST FOR QUOTATION/TENDER PROCEDURE

### 6.1 General

All Low Voltage Switchboards, covered by each of the Type Specifications listed in Section 1 for the Panel, which are to be purchased by the Corporation, will be procured through the Panel. Those Corporation switchboards that are procured by a Contractor or Alliance for delivery to the Corporation will be required to be sourced from one of the appropriate Panel members. These switchboards are to comply with the Panel specification requirements and use the established documentation; however, the commercial arrangements will be established by the Contractor/Alliance, with the selected supplier from the Panel.

### 6.2 Quotation Documentation

All switchboards procured through the Panel will be specified using a completed Annexure to Specification from the applicable Design Type Specification. The supplier is required to complete the Tender Technical Response Schedule when quoting for each requirement.

### 6.3 General Conditions of Contract

Where the Corporation calls for tenders for Switchboard requirements under the Panel, the general conditions of contract that will apply for the subsequent contract/s will be the Corporation's General Conditions of Contract - Supply. These General Conditions of Contract have been agreed between the Panel Members and the Corporation so inclusion in project tender documentation will not be required.

### 6.4 Completion of Annexure

All switchboards procured through the Panel will be specified using a completed Annexure to Specification from the applicable Design Type Specification. The Supplier is required to complete the Tender Technical Response Schedule when quoting for each requirement.

### 6.5 Procedure

- (a) Specifications for the switchboards of the types described herein will be based closely on the relevant type specifications  

Tendering for the design, manufacture, testing and delivery of the types of switchboards described herein is limited to members of the relevant approved Low Voltage switchboard Supplier Panel

Selection of the successful tenderer will be made on a value for money basis, i.e. on cost, delivery and conformance with the job specific specification
- (b) The provision of the equipment required under the quotation will be initiated each time either by the Corporation or the Project Contractor/Alliance issuing a request for quote to one or more Panel members
- (c) The Supplier shall provide a completed Price Schedule, in the form required by the Request for Quotation provided by the Corporation or the Project Contractor/Alliance, to support each of the rates/prices quoted for the relevant low voltage switchboard
- (d) If the Supplier's Quotation is accepted by the Corporation or the Project Contractor/Alliance, the Request for Quote, Price Schedule, and any other agreed requirements will form part of the Contract

## 7 CORPORATION'S REPRESENTATIVE

The Corporation's representative dealing with issues relating to the Panel is:

Mr Ed Gliwski

Senior Principal Engineer, Electrical

Engineering

Ph: (08) 9420 2444

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## WATER CORPORATION

### 8 APPENDIX A – SUPPLIER PANEL

Switchboard Type	Description	Supplier	Panel Agreement No	Details/Restrictions/Qualifications
Type A1	Type Specification for Minor LV Switchboards - Design Standard DS 26-36 - rated capacity of $\leq 100$ A	<b>Leicon Notley</b> Tram Nguyen +61 (8) 9240 6066 0477 738 883 <a href="mailto:tram@leiconnotley.com.au">tram@leiconnotley.com.au</a>	4700011024	Aluminium IP56 Subject to the Technology Licence Agreement
		<b>Western Controls Pty Ltd</b> Eric Mellor +61 (8) 6254 4000 0419 362 113 <a href="mailto:eric@westerncontrols.com.au">eric@westerncontrols.com.au</a>	4700010841	Aluminium IP56 Subject to the Technology Licence Agreement
		<b>Kounis Metal Industries Pty Ltd</b> Brett Heslin +61 (8) 9330 5333 0418 936 095 <a href="mailto:brett.heslin@kounis.com.au">brett.heslin@kounis.com.au</a>	4700010843	Aluminium IP56 Subject to the Technology Licence Agreement
Type A2	Type Specification for Minor LV Switchboards - Design Standard DS 26-10 - rated capacity of $>100$ A to $\leq 200$ A	<b>Leicon Notley</b> Tram Nguyen +61 (8) 9240 6066 0477 738 883 <a href="mailto:tram@leiconnotley.com.au">tram@leiconnotley.com.au</a>	4700011024	Aluminium IP56 Subject to the Technology Licence Agreement
		<b>Western Controls Pty Ltd</b> Eric Mellor +61 (8) 6254 4000 0419 362 113 <a href="mailto:eric@westerncontrols.com.au">eric@westerncontrols.com.au</a>	4700010841	Aluminium IP56 Subject to the Technology Licence Agreement

		<b>Kounis Metal Industries Pty Ltd</b> Brett Heslin +61 (8) 9330 5333 0418 936 095 <a href="mailto:brett.heslin@kounis.com.au">brett.heslin@kounis.com.au</a>	4700010843	Aluminium IP56 Subject to the Technology Licence Agreement
Type B	Type Specification for Extended Range Minor LV Switchboards - Design Standard DS 26-11 - rated capacity of >200 A to ≤ 440 A	<b>Leicon Notley</b> Tram Nguyen +61 (8) 9240 6066 0477 738 883 <a href="mailto:tram@leiconnotley.com.au">tram@leiconnotley.com.au</a>	4700011024	Aluminium IP56 Subject to the Technology Licence Agreement
		<b>Western Controls Pty Ltd</b> Eric Mellor +61 (8) 6254 4000 0419 362 113 <a href="mailto:eric@westerncontrols.com.au">eric@westerncontrols.com.au</a>	4700010841	Aluminium IP56 Subject to the Technology Licence Agreement
		<b>Kounis Metal Industries Pty Ltd</b> Brett Heslin +61 (8) 9330 5333 0418 936 095 <a href="mailto:brett.heslin@kounis.com.au">brett.heslin@kounis.com.au</a>	4700010843	Aluminium IP56 Subject to the Technology Licence Agreement
Type C	Type Specification for Large LV Switchboards - Design Standard DS 26-17 Ver2 Rev2 (based on IEC 61439 & 61641)	<b>ABB Australia Pty Ltd</b> Dicky Windt +61 (8) 9273 2420 0409 522 731 <a href="mailto:dicky.windt@au.abb.com">dicky.windt@au.abb.com</a>	4700010844	<b>ABB-MNS</b> a) 415V 2900A IP41 switchboards: ABB - Max DOL motor starter panel of 220 kW b) 690V 2900A IP41 switchboards: ABB - Max DOL motor starter panel of 335 kW

		<b>Kounis Metal Industries Pty Ltd</b> Brett Heslin +61 (8) 9330 5333 0418 936 095 <a href="mailto:brett.heslin@kounis.com.au">brett.heslin@kounis.com.au</a>	4700010843	<b>Siemens-Sivacon S8</b> a) 415V 2900A IP41 switchboards: Siemens – Max DOL motor starter panel of 220 kW b) 690V 2900A IP41 switchboards: Siemens - Max DOL motor starter panel of 365 kW
		<b>Western Controls Pty Ltd</b> Eric Mellor +61 (8) 6254 4000 0419 362 113 <a href="mailto:eric@westerncontrols.com.au">eric@westerncontrols.com.au</a>	4700010841	<b>Cubic</b> a) 415V 2900A IP41 switchboards: Cubic- Max DOL motor starter panel of 300 kW b) 415V 2000A IP54 switchboards: Cubic- Max DOL motor starter panel of 300 kW
		<b>Leicon Notley</b> Tram Nguyen +61 (8) 9240 6066 0477 738 883 <a href="mailto:tram@leiconnotley.com.au">tram@leiconnotley.com.au</a>	4700011024	<b>Cubic</b> a) 415V 2000A IP54 switchboards: Max DOL motor starter panel of 315 kW

**END OF DOCUMENT**