

ENGINEERING STANDARD & GUIDELINES DOCUMENT RE-NUMBERING NOTIFICATION

7 February 2019

Introduction

SA Water has commenced the process of re-numbering technical standards and guidelines.

The reasons for this initiative include:

- SA Water's historical number allocation process (i.e. next number available) has resulted in numbering which is not ordered or logical to users and related standards (e.g. discipline groups, etc.) are not adjacent to each other or in any logical sequence.
- There are significant gaps in numbering which has resulted from withdrawn standards.
- Standard numbers are not related to other SA Water standard documents (e.g. standard drawings, typical drawings, etc.).

New Numbers

The new numbers include an identifier reference number which relates to the engineering discipline with primary technical responsibility for the document. This will allow users to easily identify the engineering discipline and provide alignment between technical standards and other SA Water standard documents (e.g. standard drawings, typical drawings, etc.).

SA Water has allocated proposed numbers for all current documents that SA Water are expecting to maintain in the near future.

An overview of groups of standards, guidelines and drawings by discipline is included in Appendix A and the initial number allocations for SA Water standards currently active are shown in Appendix B. The proposed new numbers for each document will be included on the SA Water website (Technical Standards pages) in the near future.

Re-numbering Process

Given the extent of work required to undertake this re-numbering process, SA Water are changing existing numbers to new numbers progressively as documents are re-issued. This process commenced **Monday 2nd May 2016**. As such, all new documents released (both new and revised) from this date will be issued using the new number.

Contractual Status of Documents During the Transition Process

All contractual references to SA Water standards and guidelines, shall be considered as being equivalent (e.g. any reference to a standard by its legacy number shall be taken to mean the document with the new number).

For example:

- If TS 79 is referenced in contract documents for a contract advertised on (or after) 12th July 2016 and TS 0301 has been released on the SA Water website prior to 12th July 2016, TS 0301 will be the document contractually binding for that contract (as the equivalent standard).
- If TS 79 is referenced in contract documents for a contract advertised on (or after) 12th July 2016 and TS 0301 is released after 12th July in August 2016, TS 79 (the revision current on the SA Water website on 12th July 2016) will be the document contractually binding for that contract.

Availability of Legacy Documents

SA Water will only make the current active version of documents available for download from the SA Water website (e.g. when a standard is re-issued under a new number, the superseded document issued under the legacy number will no longer be available for download). Legacy documents will be made available upon request to myself using the contact details provided below.

Murat Aksoy
Manager Engineering Technical Services
Email: murat.aksoy@sawater.com.au
Phone: 74242049

Appendix A Numbering Overview

TECHNICAL STANDARDS				STANDARD/TYPICAL DRAWINGS			
Discipline Number	TS Number	TS Standard Documents		TS 95 Allocation	Year Field Number		Drawing Number (Optional)
		Parent Number	Child Numbers (If applicable)		Standard	Typical	
01	0100 - 0119	General	General	Other	4001	5001	00001 - 99999
	0120 - 0129		Security				
	0130 - 0139		Asset Management				
	0140 - 0199		Future Use				
02	0200-0209	Mechanical & Hydraulics	General	Mechanical & Hydraulics	4002	5002	00001 - 99999
	0210-0219		Hydraulics				
	0220-0229		Pumps				
	0230-0239		Valves				
	0240-0244		Surge Mitigation				
	0245-0249		HVAC				
	0250-0259		Sewer Systems				
	0260-0269		Instrumentation				
	0270-0279		Chemical Dosing				
	0280-0289		Commissioning				
0290-0299	Future Use						
03	0300 - 0339	Electrical	Low Voltage	Electrical	4003	5003	00001 - 99999
	0340 - 0349		High Voltage				
	0350 - 0359		SCADA				
	0360 - 0369		Controls				
	0370 - 0399		Future Use				
04	0400 - 0419	Material Science	Coatings & Wrapping	Material Science	4004	5004	00001 - 99999
	0420 - 0439		Welding				
	0440 - 0459		Cathodic Protection				
	0460 - 0479		Materials				
	0480 - 0499		Future Use				
05	0500 - 0509	Reticulation Networks	Authorised Items	Reticulation Networks	4005	5005	00001 - 09999
	0510 - 0519		WSAA Supplements				
	0520 - 0529		Other Documents - FINAL				
	0530 - 0599		Sewer				
	0540 - 0549		Water				
	0550 - 0559		Pumping				
	0560 - 0569		Vacuum				
	0570 - 0579		Pressure				
	0580 - 0589		Future Use				
	0590 - 0599		Future Use				
							10001 - 19999
							20001 - 29999
							30001 - 39999
							40001 - 49999
							50001 - 59999
							60001 - 69999
							70001 - 79999
							80001 - 89999
							90001 - 99999
06	0600 - 0619	Civil	General	Civil	4006	5006	00001 - 99999
	0620 - 0629		Pipelines				
	0630 - 0659		Dams				
	0660 - 0699		Future Use				
07	0700 - 0709	Structural	General	Structural	4007	5007	00001 - 99999
	0710 - 0719		Concrete				
	0720 - 0729		Tanks				
	0730 - 0739		Steel				
	0740 - 0749		Aluminium				
	0750 - 0799		Future Use				
08	0800 - 0899	Future Use			4008	5008	00001 - 99999
09	0900 - 0999	Future Use			4009	5009	00001 - 99999
10	NA	NA	NA	P&ID	4010	5010	00001 - 99999
11	NA	NA	NA	Site Plans	4011	5011	00001 - 99999
12	NA	NA	NA	Site Services	4012	5012	00001 - 99999
13	NA	NA	NA	Survey	4013	5013	00001 - 99999

Appendix B Initial Number Allocations – Current Stds.

TYPE	LEGACY NUMBER	NEW NUMBER	TITLE
TS	0001a	0710	Concrete
TS	0001b	0710	Concrete
TS	0002	0460	PVC Waterstop
TS	0003b	0710	Concrete
TS	0003c	0710	Concrete
TS	0004	0620	Packing sand (pipe embedment and trench fill sand)
TS	0008	0521	Raising and Lowering Access Covers
TS	0015	0401	Protection of Steelwork in Submersible Environments
TS	0016	0400	Protection of Steelwork in Atmospheric Environments
TS	0018	0402	Protection of Steelwork in Buried Environments
TS	0027	0202	Bolt tightening procedure for mechanical plant
TS	0030a	0420	Welding specification – welding & welding procedure qualification
TS	0040	0601	Supply and delivery of 3 mm crushed rock aggregate for wellpoint installations
TS	0054	0462	Supply of steel vent tube bases and vent base holding down bolts
TS	0055	0463	The supply of 305 mm diameter welded steel vent tubes
TS	0059	0201	Specification for EWS departmental flanges - 1983 (Reference Specification Only)
TS	0068	0710	Concrete
TS	0079	0300	The supply and installation of low voltage electrical equipment
TS	0080	0302	The design supply and installation of a solar power system
TS	0095	0100	Requirements for technical drawings
TS	0098	0403	Surface preparation and protection of cast iron using potable water approved ceramic filled solventless high build epoxy
TS	0106	0120	Electronic security installation standards
TS	0107	0121	Physical security site standards general definitions. includes amendment 1 relating to door and steel cladding thickness
TS	0112	0200	Process and Instrumentation Diagrams
TS	0135	0522	Fire hydrant location markings - installation of blue reflectors and association painted road markings
TS	0137	0461	Rehabilitation of concrete wastewater manholes
TS	0140	0230	Stop Valve Selection Criteria for Water mains
TS	0142	0621	Vehicular Cross-Over's for Above Ground Mains
TS	0146b	0220	Requirements for Pump Specification, Procurement and Testing and the Preparation of Pump Datasheets
TS	0146c	0280	Mechanical Requirements for the Commissioning and On-going Monitoring of Pumps and Associated Equipment

TYPE	LEGACY NUMBER	NEW NUMBER	TITLE
TS	0147	0240	Surge Mitigating Infrastructure
TS	0149	0131	Asset Hierarchy
TS	0150	0720	Access Infrastructure for Water Tanks
TS	0151	0132	Operating & Maintenance Manuals
TS	0152	0133	Requirements for Asset Labelling
TS	0155	0101	Safety in Design Standard
TS	0157	0270	The Design & Construction of Small to Medium Gaseous Chlorine Systems
TS	0159b	0204	Colour Coding Of Pipework
TS	1000 V1	0350	SCADANet, SCADA and DCS Systems - Functionality
TS	1000 V2	0351	SCADANet, SCADA and DCS Systems – Design Philosophy
TS	1000 V3	0352	SCADANet, SCADA and DCS Systems - Implementation

TYPE	LEGACY NUMBER	NEW NUMBER	TITLE
TG	0010	0630	General Technical information for Geotechnical Design comprising of 13 sections TG 10a to TG 10m
TG	0010a	0631	General Technical Information for Geotechnical Design Part A - Compaction
TG	0010b	0632	General Technical Information for Geotechnical Design Part B - Earth Dam Design
TG	0010c	0633	General Technical Information for Geotechnical Design Part C - Earthworks
TG	0010d	0634	General Technical Information for Geotechnical Design Part D - Environmental Issues
TG	0010e	0635	General Technical Information for Geotechnical Design Part E - Hydrogeology
TG	0010f	0636	General Technical Information for Geotechnical Design Part F - Lined Storages
TG	0010g	0637	General Technical Information for Geotechnical Design Part G - Materials
TG	0010h	0638	General Technical Information for Geotechnical Design Part H - Permeability
TG	0010i	0639	General Technical Information for Geotechnical Design Part I - Pile Driving
TG	0010j	0640	General Technical Information for Geotechnical Design Part J - Pipelines
TG	0010k	0641	General Technical Information for Geotechnical Design Part K - Geotechnical SI Unit System
TG	0010l	0642	General Technical Information for Geotechnical Design Part L - Soil Testing
TG	0010m	0643	General Technical Information for Geotechnical Design Part M - Survey Pillars
TG	0011a	0500	The Design Of Sewerage Systems (Extract Of Par 4 And 5)
TG	0013	TS 0301	Design of Electrical Equipment
TG	0032	0210	Hydraulic Aspects of Pumping and Gravity Mains
TG	0096	0621	Guidelines For The Design Of Anchors And Thrust Blocks On Buried Pipelines With Unrestrained Flexible Join And For The Anchorage Of Pipes On Steep Grades

TYPE	LEGACY NUMBER	NEW NUMBER	TITLE
TG	0104	0622	Design Of Pipe End Dissipators
TG	0105	0501	Allowable Pipe Size, Class and Materials for Water Mains
TG	0106	0720	Above Ground Circular Concrete Tanks
TG	0110	0100	Safety In Design Guideline
TG	0128	0502	Methods of Temporary Storage & Transfer of Sewage