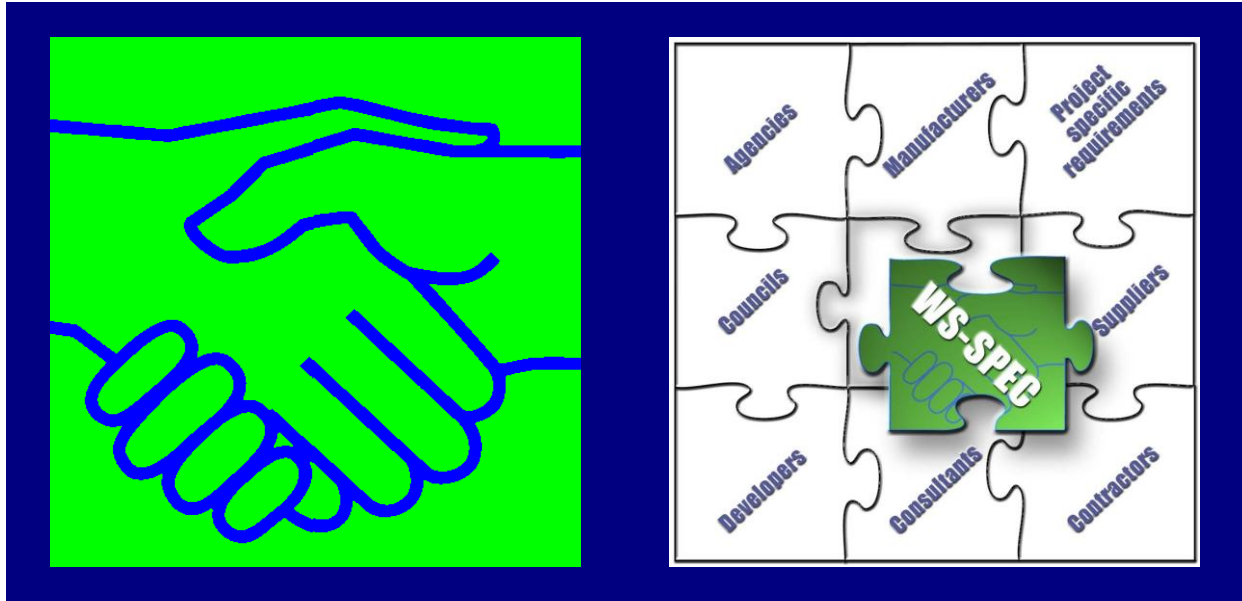


WS-SPEC

WATER SERVICES SPECIFICATION



ADDENDA

AMENDMENTS (To Issue: 3, Rev: 0, Date: 2 June 2000)

NO.	TITLE	PAGE NO.	RELEASE DATE
1	GENERAL	2	12 Mar 2001
2	SECTION SP14 MAINTENANCE SHAFTS	3	12 Mar 2001
3	SECTION TR14 PIPELINE INSTALLATION NON-PRESSURE	4	12 Mar 2001
4	The following documents were removed from WS-SPEC, revised and re-issued as part of ATIC-SPEC: - SECTION SP43 CEMENTITIOUS MATERIALS FOR CONCRETE - ATTMTS SET NO. 2 GENERAL & FOR USE WITH SECTION SP43 - REFERENCES BRC 27131 & CSIRO/UTS CCC.	--	2 Sept 2009

AMENDMENT NO. 1

PREFACE

CD-ROM AND ADDENDA

WS-SPEC is available as a CD-ROM in which the Project Specifics tables of WS-SPEC are attached as RTF (Rich Text Format) files within the program. When selected, they are opened in your word processing software (Word, Lotus Notes, Wordpad, etc) for easy electronic inclusion and modification in your own contract documents. Individual requirements can then be inserted, saving a lot of time and making technical specification writing considerably easier. Also there is a website link for all Australian Standards referenced in WS-SPEC.

The CD-ROM copy has special features including a website link for referenced Australian Standard and a web download that will allow access to WS-SPEC Addenda, Draft Australian Standards and Amendments to Australian Standards. Addenda or update to WS-SPEC will be posted at this website for all users. For non-electronic users, all these documents can be accessed through the website **standards.com.au** on the same terms.

WS-SPEC CURRENCY

Reference to any section of the Water Services Specification and any Standards is intended to mean the current issue of the document including any Addenda.

(NOTE: The heading in the Project Specifics tables “Information to be Supplied” could be replaced in project specification with “Item”.)

AMENDMENT NO. 2**SECTION SP14 MAINTENANCE SHAFTS**

REQUIREMENT: Insert in Section SP14, the following:

SECTION A4 TESTING**A4.2 TYPE TESTS**

- (d) Vacuum Test: Test Method to AS/NZS 1462.8 with an internal vacuum corresponding to a gauge pressure of -80 kPa to -85 kPa for 60 (+5, -0) minutes. Changes in external dimensions not to exceed 3% when measured through and at right angles to the centre line of the fitting, and the base or invert tolerance, not to exceed ± 5 mm from a straight line or a flat plane.
- (e) Hydrostatic Pressure Test: To AS/NZS 1260, Clause 3.3.1 and tolerances as for vacuum tests.
- (f) Joint Tests: Joint and joint assemblies to AS/NZS 1260.
- (g) Shaft Load: For *elastomeric seal joints*, not required. For *rigid joints*, 30 kN minimum insitu load capacity or to manufacturer's recommendations.

A4.3 BATCH RELEASE TESTS

- (b) - Operator pre-qualification for hot air PVC welding: Certificate 2 or 3 in Process Manufacturing (Plastics-Fabrication) as endorsed under ANTA REF. No. PMB98.
- Reinforcement bond/adhesion type test: Industry standard tensile test of PVC pipe stock reinforced with GRP laminate, to demonstrate failure within the laminate and not at the resin/PVC interface.
- (d) Vacuum Test: As for the Type Test except that the test period to be 5 (-0) minutes, and the test frequency to be one random sample per shift, or 8 hours of production, or production batch, whichever is the least.
- (e) Joint Tests: As for the Type Tests.

SECTION A3 DESIGN, MANUFACTURE AND INSTALLATION**A3.1 DESIGN**

- c) Delete 4% and insert 3%.

A3.6 MAINTENANCE TOOL PROFILES**FIGURE A3 HYDRAULIC CUTTER PROFILE**

DELETE: CUTTER DIAMETER ($< d_1$, TO SUIT)

INSERT: CUTTER DIAMETER (TO SUIT CONNECTING PIPEWORK)

AMENDMENT NO. 3

SECTION TR14 PIPELINE INSTALLATION NON-PRESSURE

5 STRUCTURES

5.1 GENERAL

REQUIREMENT: Insert in Section TR14, the following:

INSPECTION AND MAINTENANCE SHAFTS: Fully encase base fitting to pipeline requirements, and riser pipe to a minimum radial distance of 500mm in compacted embedment materials as specified in the contract specific requirements for flexible pipe embedment. Witness marks to AS/NZS 1260, to be used on all elastomeric seal joints and the riser pipe to be fully supported to maintain the specified insertion length, both prior to and during backfilling operations. PVC fabricated fittings to be used to 3 (three) metres maximum depth.