

Proposal to Incorporate Material by Reference in Proposed Hazardous Substance Safe Work Instruments

Pursuant to section 51 of the Legislation Act 2012, I, Nicole Rosie, Chief Executive, WorkSafe New Zealand, give notice that it is proposed that the standards listed in the table below are incorporated into the proposed safe work instruments listed in the table for the purposes of the Health and Safety at Work (Hazardous Substances) Regulations 2016.

The following table sets out which standards are proposed for incorporation, the proposed safe work instruments in which they are proposed to be incorporated, and the internet site addresses where the standards can be purchased:

Standard	Safe work instrument	Place of purchase
AS/NZS 4766:2006 Polyethylene storage tanks for water and chemicals	Proposed Health and Safety at Work (Hazardous Substances —Polyethylene Above Ground Stationary Tanks for Diesel Fuel) Safe Work Instrument 2017 in clauses 4, 19(b), 21 and 22.	https://shop.bsigroup.com/ https://www.standards.govt.nz/
ASTM D1693-15 Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics	Proposed Health and Safety at Work (Hazardous Substances —Polyethylene Above Ground Stationary Tanks for Diesel Fuel) Safe Work Instrument 2017 in clause 20(2).	https://www.astm.org/
BS EN 13341:2005+A1:2001 Static thermoplastic tanks for above ground storage of domestic heating oils, kerosene and diesel fuels — Blow moulded and rotationally moulded polyethylene tanks and rotationally moulded tanks made of anionically polymerized polyamide 6 — Requirements and test methods	Proposed Health and Safety at Work (Hazardous Substances —Polyethylene Above Ground Stationary Tanks for Diesel Fuel) Safe Work Instrument 2017 in clauses 4, 6, 15, 16, 18(1), 22(2), 23(1) and 24(1).	https://shop.bsigroup.com/
ISO 9001:2015 Quality Management Systems— Requirements	Proposed Health and Safety at Work (Hazardous Substances —Polyethylene Above Ground Stationary Tanks for Diesel Fuel) Safe Work Instrument 2017 in clauses 4, 15 and 16.	https://www.iso.org/ https://www.standards.govt.nz/

<p>UPSS Code of Practice for the Design, Installation, and Operation of Underground Petroleum Storage Systems (1st Edition) published in 1992 by the Occupational Safety and Health Service of the Department of Labour, New Zealand</p>	<p>Proposed Health and Safety at Work (Hazardous Substances— Management of Pre-2006 Stationary Container Systems up to 60,000 L) Safe Work Instrument 2017 in clauses 4, 28(b), and Schedule 3, clause 1(3).</p>	<p>https://www.worksafe.govt.nz/worksafe/information-guidance/pdf-documents-library/petrol-tanks.pdf</p>
<p>ASTM D2563-08(2015)-Standard Practice for Classifying Visual Defects in Glass-Reinforced Plastic Laminate Parts.</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Design and Construction of Above Ground Stationary Tank to ULC-ORD-C80.1-2000) Safe Work Instrument 2017 in clause 9.</p>	<p>https://www.astm.org/</p>
<p>ULC-ORD-C80.1-2000 Underwriters' Laboratories of Canada document Aboveground Non-Metallic Tanks for Fuel Oil</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Design and Construction of Above Ground Stationary Tank to ULC-ORD-C80.1-2000) Safe Work Instrument 2017 in clauses 4, 6 and 12.</p>	<p>http://www.techstreet.com/standards/ulc-ord-c80-1-2000?product_id=1218151#jumps</p>
<p>Pantone Matching System</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Markings for Pipework Connected to Above Ground Stationary Tanks) Safe Work Instrument 2017 in Schedule 1.</p>	<p>https://www.pantone.com/the-pantone-matching-system</p>
<p>ISO 11118:2015 Gas cylinders - Non-refillable metallic gas cylinders - Specification and test methods</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Specification of Standard Relating to Non-refillable Containers) Safe Work Instrument 2017 in clause 4.</p>	<p>https://www.iso.org/</p>
<p>AS 1692:2006 Steel tanks for flammable and combustible liquids</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Reduced Secondary Containment for Certain Above Ground Stationary Tanks) Safe Work Instrument 2017 in clause 4.</p>	<p>https://shop.bsigroup.com/</p>

<p>SwRI 93-01 Test Procedures 93-01: Testing Requirements for Protected Aboveground</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Reduced Secondary Containment for Certain Above Ground Stationary Tanks) Safe Work Instrument 2017 in clause 4.</p>	<p>infostore.saiglobal.com</p>
<p>SwRI 95-03 Test Procedures 95-03: Method for Evaluating the Fire Performance of Testing Requirements for Protected Aboveground Flammable Liquid/Fuel Storage Tanks</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Reduced Secondary Containment for Certain Above Ground Stationary Tanks) Safe Work Instrument 2017 in clause 4.</p>	<p>infostore.saiglobal.com</p>
<p>UL 2085 Protected Aboveground Tanks for Flammable and Combustible Liquids issued 1 December 1999</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Reduced Secondary Containment for Certain Above Ground Stationary Tanks) Safe Work Instrument 2017 in clause 4.</p>	<p>http://www.shopulstandards.com/</p>
<p>AS/NZS 3845:1999 Road safety barrier systems</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 11(2).</p>	<p>https://www.standards.govt.nz/</p>
<p>BS EN 1778:2000 Characteristic values for welded thermoplastics constructions - Determination of allowable stresses and moduli for design of thermoplastics equipment</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 6(1)(a), 6(2) and 10(c).</p>	<p>https://shop.bsigroup.com/</p>
<p>BS EN 12573-1:2000 Welded static non- pressurized thermoplastic tanks - Part 1: General principles</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 6(1)(b).</p>	<p>https://shop.bsigroup.com/</p>

<p>BS EN 12573-2:2000 Welded static non-pressurized thermoplastic tanks – Part 2: Calculation of vertical cylindrical tanks</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 6(1)(b) and 6(1)(c).</p>	<p>https://shop.bsigroup.com/</p>
<p>BS EN 12573-3:2000 Welded static non-pressurized thermoplastic tanks – Part 3: Design and calculation for single skin rectangular tanks</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4, and 6(1)(d).</p>	<p>https://shop.bsigroup.com/</p>
<p>BS EN 12573-4:2000 Welded static non-pressurized thermoplastic tanks – Part 4: Design and calculation of flanged joints</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4, and 6(1)(e).</p>	<p>https://shop.bsigroup.com/</p>
<p>DVS 2203 Testing of welded joints between panels and pipes made of thermoplastics</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Thermoplastic Stationary Tanks) Safe Work Instrument 2017 in clauses 4, and 8(2).</p>	<p>https://global.ihs.com/</p>
<p>UL 142 UL Standard for Safety for Steel Aboveground Tanks for Flammable and Combustible Liquids, UL 142. Ninth Edition, Dated December 28, 2006</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Stationary Tanks Connected to a Generator Set) Safe Work Instrument 2017 in clause 6(1)(a).</p>	<p>http://www.shopulstandards.com/</p>
<p>BS799-5:2010 Oil burning equipment – Part 5: Carbon steel oil storage tanks – Specification</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Stationary Tanks Connected to a Generator Set) Safe Work Instrument 2017 in clause 6(1)(b).</p>	<p>https://shop.bsigroup.com/</p>
<p>OFS T200 Oil Firing Equipment Standard Steel oil storage tanks and tank bunds for use with distillate fuels, lubrication oils and waste oils, Issue 6, 2007</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Stationary Tanks Connected to a Generator Set) Safe Work Instrument 2017 in clause 6(1)(c).</p>	<p>https://www.thenbs.com/PublicationIndex/documents/details?Pub=OFTEC&DocID=292780</p>

<p>AS 3600-2009 Concrete structures</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 7(6)(a).</p>	<p>infostore.saiglobal.com</p>
<p>AS/NZS 1170.0:2002 Structural design actions - Part 0: General principles</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 7(8), 9(1) and 10(1).</p>	<p>https://www.standards.govt.nz/</p>
<p>AS/NZS 1170.1:2002 Structural design actions - Part 1: Permanent, imposed and other actions</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 7(8) and 25(2).</p>	<p>https://www.standards.govt.nz/</p>
<p>AS/NZS 1170.2:2011 Structural design actions - Part 2: Wind actions</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 9(1)(c).</p>	<p>https://www.standards.govt.nz/</p>
<p>AS/NZS 1462.6:2008 Methods of test for plastics pipes and fittings: Method 6: Thermoplastics pipes, fittings and assemblies for the transport of fluids under pressure — resistance to internal pressure</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 17(3).</p>	<p>https://www.standards.govt.nz/</p>
<p>AS/NZS 4766:2006 Polyethylene storage tanks for water and chemicals</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 6, 14(3) and 20(1)(b).</p>	<p>https://www.standards.govt.nz/</p>

<p>AS/NZS ISO 9001:2008 Quality management systems - requirements</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 21.</p>	<p>https://www.standards.govt.nz/</p>
<p>ASTM D2837-13e1 Standard test method for obtaining hydrostatic design basis for thermoplastic pipe materials or pressure design basis for thermoplastic pipe products</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 14(3)(c) and 16(1)(e).</p>	<p>https://www.astm.org/</p>
<p>ASTM D638-14 Standard test method for tensile properties of plastics</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 16(1).</p>	<p>https://www.astm.org/</p>
<p>ASTM D2765-16 Standard test methods for determination of gel content and swell ratio of crosslinked ethylene plastics</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 18(3).</p>	<p>https://www.astm.org/</p>
<p>ASTM D1505-1 Standard test method for density of plastics by the density-gradient technique</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 16(1)(a).</p>	<p>https://www.astm.org/</p>
<p>ASTM D2990-09 Standard test methods for tensile, compressive, and flexural creep and creep-rupture of plastics.</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 17(1).</p>	<p>https://www.astm.org/</p>

<p>BS EN 1778:2000 Characteristic values for welded thermoplastics constructions - determination of allowable stresses and moduli for design of thermoplastics equipment</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4, 11(5), 11(8)(c) and 18(3).</p>	<p>https://shop.bsigroup.com/</p>
<p>ISO 527-1:2012 - Plastics - Determination of tensile properties - Part 1: General principles and ISO 527-2:2012 - Plastics - Determination of tensile properties - Part 2: Test Conditions for moulding and extrusion plastics</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 16(1).</p>	<p>https://www.iso.org/</p>
<p>ISO 899-1:2003 - Plastics - Determination of creep behaviour - Part 1: tensile creep and ISO 899-2:2003 - Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 17(1).</p>	<p>https://www.iso.org/</p>
<p>ISO 1183-1:2012 Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method, ISO 1183-2:2004 Plastics - Methods for determining the density of non-cellular plastics - Part 2: Density gradient column method and ISO 1183-3:1999 Plastics - Methods for determining the density of non-cellular plastics - Part 3: Gas pycnometer method</p>	<p>Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 16(1).</p>	<p>https://www.iso.org/</p>

ISO 9080:2003 Plastics piping and ducting systems - Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation.	Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 11(8).	https://www.iso.org/standard/28314.html
NZS 1170.5:2004 Structural design actions, Part 5: Earthquake actions - New Zealand	Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 8(1)(d).	https://www.standards.govt.nz/
NZS 3101:Part 1:2006 Concrete structures standard and NZS 3101:Part 2:2006 Concrete structures standard	Proposed Health and Safety at Work (Hazardous Substances —Above Ground Rotationally-Moulded Polyethylene Stationary Tanks) Safe Work Instrument 2017 in clauses 4 and 7(6)(b).	https://www.standards.govt.nz/

These standards are available for inspection, at no charge, between the hours of 9.00am and 5.00pm from Monday to Friday (excluding statutory holidays) at WorkSafe New Zealand, Level 6, 86 Customhouse Quay, Wellington 6011. You may also contact WorkSafe New Zealand at Regulatory.Frameworks@worksafe.govt.nz to arrange to view the material incorporated by reference.

The proposed safe work instruments that propose to incorporate the standards listed in the table are undergoing public consultation from **Monday 14 August 2017 until Friday 8 September 2017**. People can provide comment on the proposed standards for incorporation as part of the public consultation process.

The consultation document, proposed safe work instruments and submission forms can be accessed at the “Open for consultation” section of WorkSafe New Zealand’s website: www.worksafe.govt.nz/worksafe/about/who-we-work-with/consultation/open-for-consultation.

Dated this 8th day of August 2017.

NICOLE ROSIE, Chief Executive, WorkSafe New Zealand.