

Template for comments and secretariat observations

Date: 2020-10-19

Document: ISO/CD 31600

Project: ISO 31600

MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
US- 001		1	(d)	te	Replace Lavatory equipment with Water closet equipment. The term water closets are used throughout the document and is defined.	(d) Lavatory equipment. <u>Water closet equipment.</u>	Accepted as submitted
US- 002		3		te	Add definitions for “should” and “may”.	3.x should indicates that a requirement is strongly encouraged, but not mandatory 3.x may indicates a suggested requirement that will improve the technical usefulness of a countries labelling program	Below definitions taken from several other ISO Standards Accepted with modification Should – keyword indicating flexibility of choice with a strongly preferred alternative Note 1 to entry: Equivalent to the phrase “it is strongly recommended”. May – keyword that indicates flexibility of choice with no implied preference
US- 003		3		te	Definition for flow regulator needs to be added to this section. They are called out in section A 4.4 If this is meant to refer to flow controllers then the language should be the	3.x Separately sold device used to control the rate of water flow in a tap (faucet), shower outlet device or shower assembly. They are typically sold as part of an aerator subassembly or as a stand-alone component	Accepted as submitted

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					same in both sections and throughout the document.	intended to be installed in a shower assembly solution.	
US-004		3.6.1		te	Pressure can also be defined as force applied to a specific area, which would seem to be the more common definition, such as in 3.6.5.	Suggest “difference of pressure between two levels, which can be determined by the product of the difference of height, the density and velocity	Rejected – contains pressue in definition so cant be used as is
IN-005		3.6.1		TE	The definition of pressure needs to be modified.		Same topic as 004
UK-006		3.6.1	1	te	difference of pressure between two levels, determined by the product of the difference of height, the density and velocity Does this apply over complicated?	Measured force behind water delivered through a plumbing system?	Accepted as submitted
UK-007		3.11		te	Water closet used as description and title?	Remove water closet (WC) replace with WC pan or bowl and a flushing control mechanism or interposed cistern,	Water closet (toilet) pan (bowl), in combination with a cistern (tank) or a flushing control mechanism that is intended to be installed as a unit
US-008		3.12		te	Suggest referencing gravity flush urinals as well.	“combination of a water-using urinal and flushometer <u>valve (or other flushing mechanism)</u> that is intended to be supplied or installed as a unit”	Accepted as submitted
UK-009		3.13		te	Minimum amount of water practicable	Minimum amount of water, safe and practicable	Accepted with modification Minimum amount of water needed for the safe operation of the product
IN-010		4 (a)		TE	As already agreed in the previous meetings and also reflected in Annexure A, the water efficiency labelling programme/standard must include/refer to the applicable national standard/regulation for the product for compliance. Accordingly, the wordings need to be modified.	Modify as below: For the product, include or reference either of/the following for compliance – i) a national standards(s); and/or national regulations.	Rejected – superfluous

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US-011		4	(c) and (d)	ge	Clause 4.1 is missing. We assume that the references in 4.c and 4.d are intended to reference Clause 4.(b) and 4.(c), however, such a reference to preceding sub-clauses in the same clause seems odd.		Editorial – Accepted as submitted
UK-012		4	(d)	ge	The label may or may not include water efficiency rating Very unclear	The label may include the product's efficiency rating as per scheme or that it meets a minimum efficiency requirement of a scheme.	Accepted with modification – remove second sentence of (d)
IN-013		A.2	Para 1, line 4	ED	-	Substitute “product/appliance’s water efficiency” for “product/appliance’s of water efficiency”	Editorial – Accepted as submitted
US-014		A.3.1.1		ed	Change “model” to “models” in the first instance.	...from less efficient models and to...	Editorial – Accepted as submitted
IN-015		A.3.1.1	Note, last sentence	ED	-	Modify as below: “Water efficiency labelling programme as prevalent in some countries for plumbing products and water consuming appliances are also given in Annex B and Annex C, respectively which may be suitably considered by other nations for adoption or developing their own water efficiency labelling standard/programme.”	Accepted with modification Change last word to programme Water efficiency labelling programme as prevalent in some countries for plumbing products and water consuming appliances are also given in Annex B and Annex C, respectively which may be suitably considered by other nations for adoption or developing their own water

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							efficiency labelling programme
US-016		A.3.1.1 and 3.1.2		te	These sections explain that Labelling Programs can use either a pass/fail process or can use a rating system. As is, the draft implies that rating systems are the only acceptable means to convey water efficiency and conformance.	Requires discussion. Suggest: 3.1 Water Efficiency rating Communicating water efficiency levels in labelling” (the rest of 3.1 unchanged) 3.1.2 Rating system <u>or single threshold system</u>	Pete to provide some proposed changes Add definition for rating system to state that it can cover both banding and single threshold
RZ A-017		A.3.1.2		GE	Flow rates varies based on the conditions under which it is measured. Pressure plays an important role. If the pressure at which flow is measured is not specified then the flow results will not be comparable. This often happen when comparing flow rates done in different countries where different pressures are used.	It is proposed that that the following be added “g) the nominated pressure at which all flow rates should be measured.” And in all cases where reference is made to flow rates the following sentence be used: “Flow rates should be measured at the designated nominal pressure and expressed in terms of litres per minute (L/min).”	For discussion
Jo-018	4	A.3.1.2	Table A.1	ge	According to ISO procedures notes in tables shouldn't include any technical requirements , for example notes in table A.1	To include the technical requirements in the clauses of the annex	Rejected – does not include requirements. Table is an example
UK-019		A.3.1.2	Table A1	te	Not all schemes have a maximum and minimum. If 9 is a true cap then fine but is scope allowed for >9 similarly <1.5?	Note 7 Illustration show maximum and minimum limites but the scheme may extend beyond these limits if required.	Accepted with modification Intro section changed from should to may
US-020		A.3.1.2 (a)		te	Water consumption is not just measured in flow rate, but can also be measure in volume and other metrics	a) Water consumption units, e.g. litres per flush for water closets, litres per minute (L/min) for <u>taps (faucets)</u> , <u>liters per cycle for metering taps (faucets)</u> , etc.	Accepted as submitted
IN-021		A.3.2.1	Line 1	TE	The purpose of this clause is to cover the method for determination of water consumption of the product based on which its water efficiency rating would be	Modify the first line as below: “The water consumption on the label of the product should be determined in accordance with the following process:”	Accepted as submitted

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					determined. Accordingly, the sentence needs to be modified.		
UK-022		A.3.2.2		ge	Is this scheme dependant or even down to national standards.		Accepted as submitted Delete clause A.3.2.2
IN-023		A.3.2.2		TE	The purpose of this clause is to cover the method for expressing the result of the water consumption test of the product. Label would include the water consumption value so expressed with/without the water efficiency rating to be obtained based on the above value.	Modify the clause as below: The water consumption number on the label of the product obtained in accordance with A.3.2.1 should be rounded off to the nearest figure, e.g. the nominal flow rate of taps (faucets) rounded off to the nearest 0.1 L/min or 0.5 L/min.	See comment 022
IN-024		A.3.2.3		TE	Clarity is required in the clause to indicate that the product/appliance will be rated on the basis of its water consumption.	Modify the clause as below: The rating of a product/appliance should be determined on the basis of its water consumption as obtained in A.3.2.2 in accordance with the rating system specified in A.3.1.2.	Rejected Proposal to delete A.3.2.2
JP-025		A.3.3.1		ge	We would like to present our proposal because of the following reasons. 1) To avoid big conflicts between ISO PC316 and existing labelling scheme in various countries. 2) To adapt this chapter to the clause A.4 which says "all labelled products should conform to all the requirements contained in the applicable National Product Standard(s) or the National Product Standard(s) adopted by the nation of intended installation".	<ul style="list-style-type: none"> Delete the sentence "Every label should meet ~and A.3.3.3" Add the following sentence. "All of the label should conform to all the requirements contained in the applicable National Product Standard(s) or the National Product Standard(s) adopted by the nation of intended installation." 	Reject Labelling schemes and national product standards can contain different requirements
JP-026		A.3.3.2 A.3.3.3 A.3.3.4 A.3.3.7		ge	We would like to present our proposal because of the following reasons.	<ul style="list-style-type: none"> Delete 	Reject

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					<p>1) To avoid big conflicts between ISO PC316 and existing labelling scheme in various countries.</p> <p>2) To adapt this chapter to the clause A.4 which says “all labelled products should conform to all the requirements contained in the applicable National Product Standard(s) or the National Product Standard(s) adopted by the nation of intended installation”.</p>		Recommendations for countries without labelling programmes
US-027		A.3.3.2 (a)		te	Ratings for a NON-TIERED systems can also be represented by the words, “pass”, “compliant”, “meets” or “conforms”. These options should be included in the suggestions to make it clear that the standard includes pass/fail labelling programs.	Rating representation, e.g. <u>pass</u> , <u>meets</u> , <u>conforms</u> , star rating, tick etc.	Accepted as submitted
UK-028		A.3.3.3		ge	Does a label need brand and model number Sometimes labels are used in catalogues or packaging and only defines the usage as it sits alongside a product label?	Is this optional/additional 3.3.4	Accepted as submitted Move (b) and (c) to 3.3.4
CN-029		A.3.3.3		te	In China, there is only name of supplier on the water rating label. QR code is more and more popular for the label.	b) name, trade mark or identification mark of the manufactory f) Registration number or unique number issued to the model, QR code or its equivalent.	Accepted as submitted (note (f) will move to 3.3.4)
US-030		A.3.3.3 (f)		te	A registration number or unique number may lead to consumer confusion with the model number. This number, while helpful to the labelling program, is not necessary for consumers and can add to the cost and infrastructure needed to run a program. We recommend deletion or, at a minimum, relocate to section A.3.3.4 Additional label	Delete (f)	Accepted with modification Move (f) to 3.3.4

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					information. ISO has requirements for the conformance of products.		
RZ A- 031		A.3.3.3 and A 3.3.7		GE	Reference to, "Registration number or unique number issued to the model or its equivalent." For voluntary systems, this requirement cannot be enforced.	It's proposed that the txt be changed to: "where applicable, registration number or unique number issued to the model or its equivalent."	Same topic as 030
CN- 032		A.3.3.4		te	Place setting for dishwasher and rated capacity for washing appliances are critical parameter.	Moving this item to A.3.3.3 and adding Rated capacity(applicable for washing machine and washer/dryer)	Accepted as submitted
IN- 033		A.3.3.4	Note	ED	May be deleted as Annex B and Annex C do not have specific information on label specifications and label information. Further, references to these Annexures are appropriately coming under A.3.3.1.	Delete the Note.	Accepted as submitted
US- 034		A.3.3.6		te	Language is vague and redundant to first paragraph. Delete second paragraph of Section A.3.3.6	The water efficiency label should be prominent and visible when the product/appliance is profiled, displayed, promoted, marketed, sold or supplied at any point in the supply chain.	Accepted as submitted
UK- 035		A.3.3.6		ge	Many products packaging don't reach the consumer.	Where relevant to the water consumption, eg retail. It may only be relevant at point of purchase eg brochures and is acceptable see 3.3.7	Accepted with modification First sentence added and changed to may (see draft)
US- 036		A.3.3.7 (d)		te	Registration Number: This information is not useful to the consumer in choosing a product so should not be required for the label. It also increases the cost of packaging for manufacturers. Delete A.3.3.7 (d)	d) Registration number or unique number issued to the model or its equivalent.	Accepted as submitted
UK- 037		A.3.3.7 (d)		ge	Registration number or unique reference is not relevant to consumers	Registration number or unique number issued to the model or its equivalent. (Some schemes will use product codes, this will be acceptable)	Same topic as 030 Change (d) to may

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							Update first sentence to match A.3.3.6
US-038		A.3.3.8			New labels are not required when components are changed, unless, in the case of a tiered rating system, the water efficiency rating is changed. However, the product does require be retesting and certification.	Where there is any change to the critical components of the product that affects its performance and water efficiency rating, the model should be <u>retested and recertified</u> . deemed as a new model and the existing label as invalid. A new label is required for the product. * Note: check requirements in ISO 17065	Accepted as submitted
JP-039		A.3.3.8		ge	We would like to present our proposal because of the following reasons. 1) To avoid big conflicts between ISO PC316 and existing labelling scheme in various countries. 2) To adapt this chapter to the clause A.4 which says "all labelled products should conform to all the requirements contained in the applicable National Product Standard(s) or the National Product Standard(s) adopted by the nation of intended installation".	• Delete the sentence "NOTE: Water efficiency ~ labelling Standard"	Accepted as submitted
IN-040		A.3.3.8	Note	ED	May be deleted as Annex B and Annex C do not have specific information on the concerned aspect. Further, reference to these Annexures are appropriately coming under A.3.3.1.	Delete the Note.	Same topic as 039
US-041		A.3.4		te	Programs under this standard should have rules for monitoring on-going compliance with the program's requirements. Add new A3.4 e).	<u>e) rules and requirements to monitor the ongoing compliance of products to the labelling program requirements in accordance with Annex D.</u>	Accepted with modification Not in accordance – change to examples of

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							other countries is provided in Annex D
US-042		A.3.4 b)			Clarity is needed for (b) if it pertains to ownership of the product or company.	No proposed change provided as we are unclear of the intent. However, if the requirement pertains to the owner of the product/appliance, then deletion of (b) is recommended.	Accepted with modification Change to a) rules and requirements regarding changes of ownership of the manufacturer, supplier or importer of the labelled product/appliance.
CN-043		A.4.2.4.1		te	In China, the water supply pressure of different floors of the same building is quite different. Products connected to the same water supply system have different water pressure due to different floors. There is usually a difference of 0.2MPa.	The pressure range of " predominately pressurized plumbing systems " and " predominately low pressure plumbing systems " should be specified.	Rejected
IN-044		A.4.2.4.1	First sentence	ED	The additional suggested test should be listed in this clause itself.	The following tests are offered for consideration for inclusion in a water efficiency labelling programme: a) determination of spray coverage; b) determination of spray force test; and pressure independency (minimum flow rate test).	Rejected Tests are included in same clause
IN-045		A.4.2.4.1	Note, First sentence	ED	-	The following Determination of Spray Coverage and Spray Force tests are only	Editorial – Accepted as submitted

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						recommended for regions having predominately pressurized (e.g. water utility supplied) plumbing systems.	
RZ A- 046		A.4.2.4.2		GE	In the absence of a shower specification, how will this test be introduced?	Kindly provide comments on the inclusion of the spray force test	Should be done in accordance with the national Standard
IN- 047		A.4.2.4.2, A.4.2.4.3, A.4.2.4.4, A.4.3.3.3		TE	As these clauses are supposed to cover additional suggested test for water efficient shower outlet devices/ shower assembly solutions, it is preferred that an established test method for the above requirements may be suitably incorporated in the draft standard so as to help those countries which are in the process of developing their own water efficiency labelling standard/programme to adopt these in their national requirements.	-	Rejected These details should be in the national Standards and examples in Annex B & C A.4.2.4.1 – add additional note pointing to Annex B & C
RZ A- 048	4	A.4.3.1		GE	A fair volume of these “bar Sinks” are usually installed.	Kindly provide comments for/against the inclusion of bar sinks	Accepted as submitted Comment of support for inclusion
UK- 049		A.4.3.3.1	Note	te	NOTE: This test is only recommended for regions having predominately pressurized (e.g. water utility supplied) plumbing systems. It may not be appropriate for regions that have predominately low pressure (e.g. roof cistern supplied) plumbing systems. This test must be applicable to all fittings, pressurised system or not.	Remove note.	Accepted with modification Delete from general and move to A.4.3.3.3
US- 050		A.4.3.3.2		te	Title assumes that the ONLY measure of tap efficiency is a flow rate. A second measure	A.4.3.3.2 Determination of <u>water consumption tap (faucet) flow rate</u>	

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					of efficiency is VOLUME, as would be used with a metering tap (metering faucet)		
US-051		A.4.3.3.2.2 (new)		te	A new section is required to determine total water consumption by a metering faucet	<u>A.4.3.3.2.2 The water consumption of metering taps (faucets) should be determined by the test procedures detailed in the applicable national regulations or national standard(s) of the nation of intended installation. Water consumption shall be expressed in terms of litres per on-off cycle of the device.</u>	Accepted as submitted
UK-052		A.4.3.3.3		te	The note should be applicable to this test.	This test is only recommended for regions having predominately pressurized (e.g. water utility supplied) plumbing systems. It may not be appropriate for regions that have predominately low pressure (e.g. roof cistern supplied) plumbing systems.	Same as 049
US-053		A.4.4.1		ed	Delete repetitive wording	...control the rate of water flow of water in a tap...	Editorial – Accepted as submitted
RZ A-054	Note	A.4.4.1		GE	Marking requirements on packaging are appropriate to help ensure compatibility. Markings are required because they will give clarity to consumers therefore should be included	It is proposed to change the section of the note to read "...t is recommended that installation instructions be included with separately sold flow control devices, and that the flow rate specifications be provided on the packaging.	Accepted as submitted
IN-055		A.4.4.4.1		TE		Substitute "fitted as per the manufacturer's instructions" for "fitted per the manufacturer's instructions".	Editorial – Accepted as submitted
UK-056		A.4.5		ge	I note that the terminology in this section is US terminology with European in brackets, this is reversed in other sections,	for uniformity of the document eg inlet (fill) valves, outlet (flush) valves etc.	Editorial – Accepted as submitted

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US-057		A.4.5.1		te	Change “western-style” to “seated-type” for clarity. Seated type toilets are used all over the world, not just in “western” countries.	-“ Western-style <u>Seated-type</u> ” and squat-type...	Accepted as submitted
RZ A-058	Note	A.4.5.3.2.2		GE	The South African National Standard specification (SANS 1509:2017, <i>Flush valves for WC flushing cisterns</i>), allows for three types of flushing valves, which take into account the volume flow rate: <ul style="list-style-type: none"> • single flush; • dual flush and; • an interruptible flush valve. How will the interruptible flush be catered for?	The flow rate specification should include a description for the condition at which the flow rate should be achieved. In other words, each country need to specify at what pressure the flow needs to be measured.	Action: Ask RZA to provide proposed wording/changes to cover this In Europe they are tested up to their maximum flush volume
IN-059		A.4.5.3.2.3	First sentence	ED	-	Modify as below: “ Testing of separately sold water closets, bowls (pans), cisterns (tanks) and water closet flushometer-valves (flush valves) should be tested ----- intended installation.”	Editorial – Accepted as submitted
US-060		A.4.5.4		ge	We suggest either to delete A.4.5.4“Flush Volume Tolerance” entirely or, alternatively, revise the clause to discuss the issue of tolerances and allow each nation to determine appropriate tolerances based on the products available in their markets.	Delete A4.5.4. Alternatively leave the flush volume tolerance to the developers of the Water Efficiency Labelling Programme. (Text to be developed.)	Accepted as submitted
RZ A-061		A.4.5.4		GE	In terms of wanting an efficient flush for water closets the recommended tolerance will be advisable.	It is requested that an efficient flush for water closets the recommended tolerance	Relates to 060
JP-062		A.4.5.4		ge	We suggest to delete A.4.5.4“Flush Volume Tolerance” or not to fix specific value. The value could be set freely depending on each nations’ situation.	• Delete A4.5.4 or leave the flush volume tolerance to the developers of the Water Efficiency Labelling Programme.	Relates to 060

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						<Reason> •No universal tolerance is required. The products only need to meet the requirements in Annex B for each nation.	
JP-063		A.4.5.4		ge	We strongly request that JP1 be considered and discussed with the greatest care before moving to DIS.		Relates to 062
IN-064		A.4.6.3.2.2	First sentence	ED	-	Modify as below: “ Testing of urinals and urinal flushometer-valves (flush valves) should be tested ----- intended installation.”	Editorial – Accepted as submitted
US-065		A.4.6.4		ge	Same as A.4.5.4	Same as A.4.5.4	Relates to 060
JP-066		A.4.6.4		ge	We suggest to delete A.4.6.4”Flush Volume Tolerance” or not to fix specific value. The value could be set freely depending on each nations’ situation.	•Delete A4.6.4 or leave the flush volume tolerance to the developers of the Water Efficiency Labelling Programme. <Reason> •No universal tolerance is required. The products only need to meet the requirements in Annex B for each nation.	Relates to 060
SG-067	4	A.5.1.3	Para 1	te	A.5.1 Dishwashers A.5.1.3 Determination of specific water efficiency Suggest to put a Note after para 1 to indicate that countries may specify different method to determine the water consumption	NOTE: Some national regulations or national Standard(s) specify a different method to determine this requirement to the developers of the Water Efficiency Labelling Programme.	Accepted as submitted

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					for their Water Efficiency Labelling Programme.		
US-068		A.5.1.4		ed	The term “maximum” is being added for clarity.	P = <u>maximum</u> number of place settings of the dishwasher	Accepted as submitted Also add as specified by the manufacturer
CN-069		A.5.1.4		te	The formula is not same to different national standard or regulation	The water efficiency rating of a dishwasher MAY BE determined using the following formula for the water consumption determined under Clause A.5.1.3:	Accepted as submitted
CN-070		A.5.2.2 A.5.2.3		te	It makes no sense for most of the standards but AU/NZS standard.	Delete	Bai to get some more background from colleague and provide to Phil for review
SG-071	18	A.5.2.3	Para 6	te	A.5.2 Clothes washers A.5.2.3 Determination of specific water efficiency Suggest to put a Note after para 6 to indicate that countries may specify different method to determine the water consumption for their Water Efficiency Labelling Programme.	NOTE: Some national regulations or national Standard(s) specify a different method to determine this requirement to the developers of the Water Efficiency Labelling Programme.	Accepted as submitted
CN-072		A.5.2.4		te		The water efficiency rating of a clothes washing machine MAY BE determined using the following formula for the water consumption determined in accordance with Clause A.5.2.3:	Relates to 069
CN-073		A.5.3.2.3		te	In this case, it can not be considered as combination of washer/dryer	delete	Bai to get some more background from colleague

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		A.5.3.2.4 A.5.3.3.3 A.5.3.3.4					and provide to Phil for review
US-074		Annex B		ge	WaterSense is a trademark term and therefore should be included when the term is reference in ISO 31600.	Please add the trademark symbol ™ after the term WaterSense in all instances.	Country specific content – Accepted as Submitted
SG-075		Annex B	B.5 Column 8	ed	<u>Clothes washing machines for household use</u> <u>Reference documents</u> Changes to contents as shown.	PUB WELS Guidebook IEC 60456 Edition 5.0 (2010-02) ; or BS EN 60456 (2005) Relating to water consumption	Country specific content – Accepted as Submitted
SG-076		Annex B	B.5 Column 8	ed	<u>Dishwasher for household use</u> <u>Reference documents</u> Changes to contents as shown.	PUB WELS Guidebook BS EN 50242: 2016 / BS EN 60436: 2016 ; or IEC 60436:2015 relating to water consumption	Country specific content – Accepted as Submitted
SG-077		Annex B	B.5 Column 3	ed	<u>Clothes washing machine for household use</u> <u>Performance parameters</u> Changes to contents as shown.	(a) Clause 8.6 of IEC 60456 Edition 5.0 (2010-02) ; or (b) Clause 11 of BS EN 60456 (2005) relating to measurement of water consumption	Country specific content – Accepted as Submitted
SG-078		Annex B	B.5 Column 3	ed	<u>Dishwasher for household use</u> <u>Performance parameters</u> Changes to contents as shown.	(a) Clause 8.2.4 of BS EN 50242: 2016 / BS EN 60436: 2016 ; or (b) Clause 8.2.4 of IEC 60436: 2015	Country specific content – Accepted as Submitted
SG-079		Annex B	B.5 Column 8	ed	<u>Showerheads</u> <u>Reference documents</u> Changes to contents as shown.	AS/NZS 3662: 2013 Clause 5.1 (Appendix B) AS/NZS 3662: 2013 Clause 5.4 (Appendix H) AS/NZS 3662: 2013 Clause 5.4 (Appendix I)	Country specific content – Accepted as Submitted

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						PUB WELS Guidebook	
SG-080		Annex B	B.5 Column 5	ed	<u>Showerheads</u> <u>Additional characteristics that affect water efficiency rating.</u> Changes to content as shown.	(a) (b) the difference between the highest and lowest flow rate (measured at dynamic flow pressures of 1.5 bars, 2.5 1.5 bars, 3.5 bars, 4.5 bars, 5.0 bars) must not exceed 2 L/min. Recommended additional test for 3-tick showerheads: a) spray force test; and b) spray coverage test under AS/NZS 3662:2013	Country specific content – Accepted as Submitted
SG-081		Annex B	B.5 Column 5	ed	<u>Urinal equipment</u> <u>Additional characteristics that affect water efficiency rating.</u> Changes to content as shown.	a) Clause 8.5 of ASME A112.19.2 -2008/CSA B45.1-08; or b) Clause 8.5 of ASME A112.19.2 -2013/CSA B45.1-13	Country specific content – Accepted as Submitted
SG-082		Annex B	B.5 Column 8	ed	<u>Urinal equipment</u> <u>Reference documents</u> Changes to content as shown.	PUB's Stipulation of Standards & Requirements for Water Fittings for Use in Potable Water Service Installations PUB WELS Guidebook SS 574: Part 1 (2012)	Country specific content – Accepted as Submitted
SG-083		Annex B	B.5 Column 3	ed	<u>Water Closet (toilet)</u> <u>Performance parameters</u> Changes to content as shown.	Dual flush toilets (flushing cistern type) -	Country specific content – Accepted as Submitted
SG-084		Annex B	B.5 Column 8	ed	<u>Water Closet (toilet)</u> <u>Reference documents</u> Changes to content as shown.	PUB's Stipulation of Standards & Requirements for Water Fittings for Use in Potable Water Service Installations PUB WELS Guidebook	Country specific content – Accepted as Submitted

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						SS 574: Part 1 (2012)	
SG-085	-	Annex B	B.5 Column 5	ed	<u>Water Closet (toilet)</u> <u>Reference documents</u> Changes to content as shown.	Additional test is mandatory for water closet with full flush volume of less than 3.5 litres - Laboratory simulation test on waste transportation efficiency in pipes in accordance with Singapore Standard S574: Part 1:2012 Appendix J.	Country specific content – Accepted as Submitted
SG-086	-	Annex B	B.5 Column 8	ed	<u>Taps (faucets) - basin, sink, bib, shower</u> <u>Reference documents</u> Changes to content as shown.	PUB's Stipulation of Standards & Requirements for Water Fittings for Use in Potable Water Service Installations PUB WELS Guidebook BS EN 200 (2008) BS EN 817 (2008) BS EN 1111 (2017)	Country specific content – Accepted as Submitted
SG-087	-	Annex B	B.5 Column 6	ed	<u>Taps (faucets) - basin, sink, bib, shower</u> <u>Method of water efficiency rating and</u> <u>labelling</u>	Basin taps (faucets) - not more than 4 litres per minute; 2-tick: > 2 to 4 litres per minute 3-tick: 2 litres per minute or less	Country specific content – Accepted as Submitted
SG-088	-	Annex B	B.5	ed	Changes to content as shown.	Table B.5 Singapore Water Efficiency Labelling Scheme (WELS)	Country specific content – Accepted as Submitted
SG-089	-	Annex B	B.5 Column 5	ed	<u>Taps (faucets) - basin, sink, bib, shower</u> <u>Additional characteristics that affect water</u> <u>efficiency rating</u> Changes to content as shown.	A)Difference between the highest and lowest flow rates (measured at dynamic flow pressures of 1.5 bars, 2.5 bars, 3.5 bars, 4.5 bars and 5.0 bars) 1.5 and 5.0 bars must not exceed 2 litres per minute;	Country specific content – Accepted as Submitted
US-090		Annex B	Table B.1	ed	The section of the Australian description that relates to TAPS seems to have an error at the top of the 3 rd and 4 th columns in the	Replace the word “shower” with “tap” in the several (four) instances where “shower” is incorrectly shown.	* Australian members to confirm

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			(page 35 in PDF)		table. "high pressure <u>shower</u> flow rate" is stated the reference should instead be to <u>tap</u> flow rate		
CN- 091		Annex B	Table B.2	te	Every product shall add the Minimum allowable consumption	Water consumption values are divided into ranges with a grade applied to each range, Grade 3 means the least efficient, Grade 1 means the most efficient. Minimum allowable consumption of water efficiency is Grade 3.	Country specific content – Accepted as Submitted
CN- 092		Annex B	Table B.2	te	Change average to maximum and add dynamic pressure	The shower nominal flow rate is determined of the maximum flow rates (dynamic pressure 0.1MPa).	Country specific content – Accepted as Submitted
CN- 093		Annex B	Table B.2	te	Change average to maximum and add dynamic pressure	The tap (faucet) nominal flow rate is determined of the maximum flow rates (dynamic pressure 0.1MPa).	Country specific content – Accepted as Submitted
CN- 094		Annex B	Table B.2	te	Change "Performance parameters"	Flow rate test Test water temperature is (25±3) °C, test pressure(dynamic) in the process is (0.10±0.01) MPa. Single-handle dual-control/ Dual-handle dual- control shower open the handle to the maximum position of cold and hot water and the maximum position of mixed water flow rate respectively, take the maximum value of the flow rate. Single-handle single-control shower open the handle to the maximum flow rate position, and record the maximum flow rate value. If the shower has multiple ways of water outlet, the flow rate of each way of water outlet shall be tested respectively, and the water efficiency grade reached by the maximum flow rate shall be taken as the water efficiency grade of the shower.	Country specific content – Accepted as Submitted

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						<p>Uniformity of flow test The shower flow rate is measured three times at each dynamic pressure of .1MPa,0.2MPa and 0.3MPa and an average flow rate calculated at each pressure. The maximum difference between the highest and lowest average flow rate cannot exceed 4.0 L/min. The highest and lowest average flow rate cannot exceed the upper limit or lower limit respectively of the flow range of the determined.</p>	
CN-095		Annex B	Table B.2	te	Change “Additional characteristics that affect water efficiency rating”	The average spray force of the hand-hold shower shall not be less than 0.85 N.	Country specific content – Accepted as Submitted
JP-096		Annex B	Table B.4	ed	Table B.4 has been modified from last document.	• Could you please replace the table with latest one (proposed on the additional sheet).	Country specific content – Accepted as Submitted
US-097		Annex B	Table B.6	te	Pre-rinse spray valves are no longer labelled by the WaterSense program due to changes in the national regulations.	Delete row detailing Pre-Rinse Spray Valves	Country specific content – Accepted as Submitted
US-098		Annex B	Table B.6	ed (informational)	ASME/CSA is in the process of updating all the unit conversions for showerheads and faucets. The project has been approved but the revised standard is not yet published. Once published WaterSense will also update its specification. At that point these numbers should be updated as well.	Updates will be provided as soon as they are available.	* Question: Identify when updates will be provided and if they can be included
US-099		Annex B	Table B.6	ed	WaterSense should be one word and WaterSense products are referred to as “labelled” not “certified”. Change throughout the table.	See above	Country specific content – Accepted as Submitted

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US-100		Annex B	Table B.6 United States (pg47)	te	Column Performance Parameters The minimum flow rates for WaterSense showered head are 60% @ 20 psi and 75% @ 45 psi of the rated maximum they are not a single fixed number. If a showerhead is rated 1.5 gpm maximum flowrate the minimums are 0,9 gpm and 1.13 gpm.	Water sense <u>WaterSense certified</u> labelled showerheads are required to have a maximum flow rate of 2 gpm (7.6 L/min) @ 80 psi (550Kpa) and a minimum flow rates of <u>60% of the maximum at 20psi 140 Kpa) and 75% of the maximum flowrate 1.5 gpm (5.7 L/min) @45 psi (310 Kpa and 80 psi (550 Kpa)</u>	Country specific content – Accepted as Submitted
UK-101		Annex B	Table B3 Line 4 Urinals	te	Flush volume determined after 5 tests Flush volume L	Flush volume determined by average. Flush Volume Litres per flush	Country specific content – Accepted as Submitted
UK-102		Annex B	Table B3 Line 3 WCs Independent cisterns	Te	Flush volume determined after 5 tests Flush volume L	Flush volume determined by average. Flush Volume Litres per flush	Country specific content – Accepted as Submitted
UK-103		Annex B	Table B3 Line 2 Faucets	te	Pressure dependency is checked for fittings with a flow rate less than .8 bar 8 L/min must be 60% at 1.5 bar of the max flow rate.	Pressure dependency is checked for fittings with a flow rate less than 8 L/min must be 60% at 1.5 bar of the max flow rate.	Country specific content – Accepted as Submitted
UK-104		Annex B	Table B3 Line 1 Showers	te	Pressure dependency is checked for fittings with a flow rate less than .8 bar 8 L/min must be 60% at 1.5 bar of the max flow rate.	Pressure dependency is checked for fittings with a flow rate less than 8 L/min must be 60% at 1.5 bar of the max flow rate.	Country specific content – Accepted as Submitted
US-105		Annex C	Annex C	te	This section on labelling of “water using appliances” does not currently include the U.S. Energy Star Program.	Please incorporate the Energy Star labelling program for clothes washers and dishwashers. See the document Titled <i>Table C_9_30_2020</i> , submitted separately, as the required additions are too volumous to be shown here.	Country specific content – Accepted as Submitted

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US-106		Annex D		te	This section on labelling of “water using appliances” does not currently include the U.S. Energy Star Program.	Please incorporate the Energy Star labelling program for clothes washers and dishwashers. See the document Titled <i>Annex D Combined WS and ES comments 10-7-2020</i> , submitted separately, as the required additions are too large to be shown here.	Country specific content – Accepted as Submitted
JP-107		D.2		ed	Typo correction	•D.7 ⇒ D.8	Editorial – Accepted as Submitted
UK-108		D.2	D2 Line 3	ge	Test Report from Accredited lab	The UWL European scheme does not require test reports from accredited lab. The declaration does not have to come from a test lab.	Country specific content – Accepted as Submitted
JP-109		D.6		ed	The revised documents about the Japanese scheme, proposed to CN (2 nd . April. 2020) is not reflected. JP would like to send it again.	-	* Confirm document required to update
US-110		D.8.1	D.8.1	te	Revise as indicated to correct errors.	First sentence: ...product certification system in <u>2006</u> 2009. Second sentence: ... was revised in 2016 and guides the identification and certification of all-water-dispensing products, including, the.....	Country specific content – Accepted as Submitted
US-111		D.8.2		te	The factors listed are attributes WaterSense uses to develop specifications. Only products in categories with a final specification are eligible for the label.	Revise as shown: D.8.2 Registration According to the evaluation factors of WaterSense, products can be registered if the following conditions are met, they :- — Offer equivalent or superior performance — Are 20 percent or more water efficient than conventional models — Realize water savings on a national level — Provide measurable results — Achieve water efficiency through several technology options	Country specific content – Accepted as Submitted

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						<p>— Are effectively differentiated by the WaterSense label</p> <p>Replace with: <u>The WaterSense program develops efficiency and performance criteria for a number of product categories. Only products in categories with a final specification are eligible for the WaterSense label.</u></p>	

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