

IAPMO RESEARCH AND TESTING, INC.

A NON-PROFIT CORPORATION

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QAI LABORATORIES INC.

of

TULSA, OKLAHOMA

is recognized by IAPMO Research and Testing, Inc. as an independent Testing Laboratory. IAPMO Research and Testing, Inc. agrees to accept test reports prepared by the Laboratory in accordance with the policies and procedures agreed to by the laboratory in the Laboratory Recognition Agreement. The Laboratory has satisfactorily demonstrated its compliance to ISO/IEC 17025-2005 as referenced in Section 4.3 of ISO/IEC Guide 65, and has been verified as capable of performing tests in the following categories:

•Backflow Preventers• •Ballcocks/Flushometers• •Fuel Gas Items• •Metal Fixtures• •Metal Pipe/Fittings• •Mfg'd Housing/ RV Components• •NonVitreous China Fixtures• •Nonmetallic Pipe/Fittings• •Plastic Fixtures• •Septic Systems• •Plastic Pipe Fittings• •Pool/Spa Components/Fittings• •Toxicity Testing• •Shower Pan Liners• •Vitreous China Fixtures• •Vacuum Breakers• •Valves/Faucets• •Water Closets• •Water Filters/Conditioners•

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Russ Chaney
Chief Executive Officer



Jin Luo
Director of Laboratory Recognition

IAPMO RESEARCH AND TESTING, INC.

LABORATORY LISTING

APPENDIX "A" QAI LABORATORIES INC. of TULSA, OKLAHOMA

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APPLICABLE STANDARDS BY CAPABILITIES:

APPLIANCES:

EPA WaterSense Specification for Weather- Based Irrigation Controllers, Version 1.2 Dated 2011-11-03, ASSE 1023-1979

BACKFLOW PREVENTERS:

ASME A112.1.2-2012, ASSE 1001-2008 (CSA, CAN/CSA-B64 SERIES-2011;B64 SERIES-2011); ASSE 1002-2008; ASSE 1011-2004e1(CSA, CAN/CSA-B64 SERIES-2011, B64 SERIES-2011, B64 SERIES-2011); ASSE 1019-2011; ASSE 1020-2004(CSA, B45.2-2008); ASSE 1021-2001, ASSE 1024-2004 (except material), ASSE 1035-2008e1(CSA,CAN/CSA-B64 SERIES-2011); ASSE 1037-1990; ASSE 1052-2004 (CSA, CAN/CSA-B64 SERIES-2013, B64 SERIES-2011, B64 SERIES-2011); ASSE 1056-2001 (Except Material Toxicity), PS 65-2002, ASSE 1055-2009, ASSE 1012-2009, ASSE 1013-2011, ASSE 1015-2011, ASSE 1032-2004, ASSE 1047-2011, ASSE 1048-2011

BALLCOCKS & FLUSHOMETERS:

ASME A112.19.5-2011; ASME A112.19.10-2003 (R08), ASSE 1002-2008, ASSE 1037-1990 (except toxicity)

FIRE:

ASTM E 84-2011a

FUEL GAS ITEM:

ASTM D 1598-2002; ASTM F1973-2013e1

MANUFACTURING HOUSING & RV COMPONENTS:

IAPMO PS 34-2003 (Except Cell Classification), TS 1-2011e1; TS 4-2006; TS 2-2005, TS 11-2011a, TS 20-2009, TS 22-1997e1 (except 4.3.3), TS 30-1997e1

METAL FIXTURES:

ASME A112.6.1M-1997 (R08), ASME A112.6.7-2010, ASME A112.18.2-2011/ CSA B125.2-11 (Except 5.2), ASME A112.19.1-2008/ CSA B45.2-08 (Except 5.6); ASME A112.19.3-2008 (CSA, B45.4-08); IAPMO IGC 194-2004a;IAPMO PS 46-2013, PS 54-2011a, ASSE 1072-2007

METAL PIPE & FITTINGS:

ASME A112.18.6-2009(except toxicity), ASSE 1010-2004 (except material), ASTM C 1277-2012, ASME A112.18.2-2011/ CSA B125.2-11 (Except 5.2), IAPMO PS 55-1992 (except materials), IAPMO PS 79-2005 (except toxicity), IAPMO PS 95-2001, IGC 263-2013e1, IGC 275-2010, IGC 198-2004, ASME A112.21.3M - 1985 (R2007), ASME A112.21.1M-1991, ASME A112.21.2M-1983, ASME A112.36.2-1991 (R2002), EPA WaterSense Specification for Weather-Based Irrigation Controllers, Version 1.2 Dated 2011-11-03, ASTM C1173 (Section 10.3.1 and 12), ASSE 1061-11

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APPLICABLE STANDARDS BY CAPABILITIES:

NON-METALLIC PIPE/FITTINGS:

ASME A112.18.6-2009 (except toxicity), IAPMO PS 94-2012

NON VITREOUS CHINA FIXTURES:

IAPMO PS 46-2013

PLASTIC PIPE/ FITTINGS:

ASME A112.6.3-2001(R2007), ASME A112.6.4-2003 (R08), ASTM D 1599-1999, ASTM D 2513-2012e1 (Sustained Pressure Test), ASTM D 2661-2011 (except materials)(CSA, CAN/CSA-B181.1-M90), ASTM D 2665-2012 (CSA, CAN/CSA-B181.2.-M90), ASTM D 2662-1993, ASTM D 2666-1993, ASTM D 2737-2003 (Except Basic Material-Cell Class), ASTM D 2846-2009be1 (except cell classification), ASTM F409-2012 (Except Cell Classification), IAPMO IGC 67-2009a, ASME A112.14.1-2003 (R08), IAPMO PS 69-2006 (except materials), IAPMO PS 90-2014, IGC 122-2005ae1(R2013), ASSE 1050-2009, ASSE 1051-2009

PLASTIC FIXTURES:

IAPMO Z124-2011/ CSA B45.5-11 (Except 5.10), ANSI Z124.5-2013 (CSA, B45.5-2011), ANSI Z124.7-2013 (CSA, B45.5-2011); ANSI Z124.8-2013, ASTM F 462-1979(R2007), IAPMO PS 46-2013, PS 98-1996, PS 99-2007, Flammability (ASTM E 162-1983, ASTM E 662)

POOL/SPA COMPONENTS /FTGS:

ASME A112.19.7-2012 (CAN/CSA-B45 SERIES-2002(R2008)); ANSI Z124.7-2013 (CSA, B45.5-2011); IGC 171-2007 (except section 7.3),

SEPTIC SYSTEMS:

IAPMO PS 52-2009, PS 59-2012 (Less Cell Class), IGC 150-2009, IGC 167-2011ae1

SHOWER PAN LINER:

ANSI A118.10-2008, ASTM D 4551-2012(Except Shear Resistance)

VACUUM BREAKERS:

ASME A112.1.3-2000(R2010), A112.3.1-2007 (except section 3.2), IAPMO IGC 275-2010

VALVES & FAUCETS:

ASME A112.4.7-2002 (R08) (except toxicity), A112.18.1-2012/ CSA B125.1-2012 (Except Toxicity) (Sect 4.1.2, 4.14, 5.2.2, 5.13); ASME A112.19.5-2011, ASSE 1014-2005 (except material); ASSE 1016-2011, ASSE 1017-2009 (except material toxicity); ASSE 1018-2001 (except material); ASSE 1044-2001; ASSE 1057-2001 (except material); ASSE 1062-2006 (except material); ASSE 1066-1997 (except material), IAPMO PS 72-2007e1 (except toxicity), IGC 168-2012 (except toxicity), IGC 267-2011, EPA WaterSense High-Efficiency

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APPLICABLE STANDARDS BY CAPABILITIES:

Lavatory Faucet Specification, Version 1.2 Dated 2007-10-01, EPA WaterSense Specification for Showerheads, Version 1.2 Dated 2010-03-04, IGC 157-2013, ASSE 1003-2009

VITREOUS CHINA FIXTURES:

ASME A112.19.2-2008/ CSA B45.1-08 (Except 7.7, 7.8); ASME A112.19.19-2006(R2011), EPA WaterSense High Efficiency Flushing Urinal Specification, Version 1.2 Dated 2009-08-14

WATER CLOSETS:

ASME A112.3.4-2000; ASME A112.19.2-2008/ CSA B45.1-08 (Except 7.7, 7.8); ASME A112.19.3-2008, IAPMO PS 67-2010, LADWP SPS Specification, UNAR 2006, IAPMO IGC 161-2007, EPA WaterSense Specification for Tank-Type Toilets, Version 1.1 Dated 2011-05-20, ASME A112.19.14-2013

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