

GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 04-FY2016

RELATIVE TO GUAM WATERWORKS AUTHORITY ADOPTING THE HAWAII WATER SYSTEMS STANDARD

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA currently does not have an official "standards" related to water infrastructure requirements and best practices for water utility development and improvements from which GWA can provide guidance and direction to new development wanting to connect onto the GWA water system as well as guidance in working with water operations when improvements are required for any component of the water system; and

WHEREAS, GWA has a record of water standards used during the period when the agency was the Public Utility Agency of Guam, however a review of these standards revealed much of the information within the document was outdated and no longer applicable to current regulatory requirements; and

WHEREAS, CCU board approved via Resolution 11-FY2007 the Water Resource Master Plan (WRMP) prepared by Brown and Caldwell in which the WRMP was a comprehensive analysis of the water system and which used the Hawaii Water Standards of 2002 as a guide to develop water system improvements alternatives and needs for the next twenty years; and

WHEREAS, the absence of an official standards that GWA can refer to when discussing new development into the water system causes uncertainty in some cases and more importantly industry good practice necessitates that a utility has standards, as such this resolution seeks to

officially adopt the latest version of the Hawaii Water Standards (See Exhibit A – Hawaii Standard) given this document was used to plan out the development of the water system over a twenty year period; and

WHEREAS, GWA also seeks approval of a provision to the adoption of the latest version of the Hawaii Water Standards that grants the GWA General Manager the authority to modify and amend any sections within the Hawaii Water Standards that are not applicable to water system GWA operates and maintains; and

WHEREAS, GWA recognizes having water standards of its own is an appropriate document to have and as such GWA shall work to develop a draft "GWA Water Standards" and will provide the proposed Standards to the CCU on or before September 30, 2016, after which the proposed "GWA Water Standards" shall undergo appropriate reviews and approval to effectuate the "GWA Water Standards"; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- The CCU approves the adoption of the latest version of the Hawaii Water Standard (See Exhibit A – Hawaii Standard) to be used by GWA for purposes of standardizing water infrastructure requirements and best practices for water utility development and improvements.
- 3. The CCU further grants the GWA General Manager the authority to modify and amend any sections within the Hawaii Water Standards that are not applicable to water system GWA operates and maintains

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

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DULY AND REGULARLY ADOPTED, this 27th day of October, 2015

Certified by: JOSEPH T. DUENAS Chairperson	Attested by: J. GEORGE BAMBA Secretary
•	of the Consolidated Commission on Utilities as
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The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:	4
NAYS:	0
ABSTENTIONS:	0
ABSENT:	1



WATER SYSTEM STANDARDS



DEPARTMENT OF WATER SUPPLY COUNTY OF HAWAII



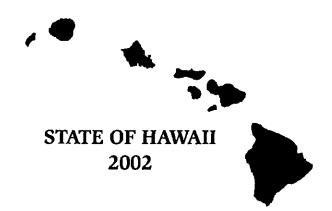
BOARD OF WATER SUPPLY CITY AND COUNTY OF HONOLULU



DEPARTMENT OF WATER COUNTY OF KAUAI



DEPARTMENT OF WATER SUPPLY COUNTY OF MAUI



WATER SYSTEM STANDARDS

PLANNING

MATERIALS

CONSTRUCTION

APPROVED MATERIAL LIST AND STANDARD DETAILS



MILTON D. PAVAO MANAGER DEPARTMENT OF WATER SUPPLY

COUNTY OF HAWAII

ERNEST Y.W. LAU
MANAGER AND CHIEFENGINEER
DEPARTMENT OF WATER
COUNTY OF KAUAI



CLIFFORD S. JAMILE
MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY
CITY & COUNTY OF HONOLULU



DAVID CRADDICK DIRECTOR DEPARTMENT OF WATER SUPPLY COUNTY OF MAU!



STATE OF HAWAII 2002



Amendments to the 2002 Water System Standards

Description	WSS Section Modified	Approval Date
Plastic Pipe	Division 200, Section 204 Plastic Pipe;	4/23/2015
-	Division 300, Section 302 Water Mains and	
	Appurtenances, Sub-sections 302.14 Plastic Pipe &	
	302.15 Fittings and Specials	
Water Main Clearances	Division 100, Section 102 Mains, Sub-section 102.01 Location	4/23/2015
3/4" Meter Splice Length	Division 400, Section 403 Standard Details	12/9/2014
Approved Material	Division 400, Section 402, Sub-section I Pipes and	9/19/2014
Christy's	Hydrants	
Approved Material	Division 400, Section 402, Sub-section IV Fire	6/20/2014
Clow Valve Company	Hydrants	0,00,000
Brass Products - Lead Free	Division 200, Section 211 Brass Products &	10/22/2013
	Division 400, Section 402, Sub-section III Service	
	Laterals, Fittings and Appurtenances	
Approved Material	Division 400, Section 402, Sub-section III Service	1/4/2013
Jensen Precast	Laterals, Fittings and Appurtenances	
Rescinding Approval for	Division 200, Section 208 - Service Laterals and	12/14/2012
Polyethylene (PE) Pipe	Appurtenances, 208.03 Plastic Tubing	
Brass Products	Division 200, Section 211 Brass Products &	6/5/2012
	Division 400, Section 402, Sub-section III Service	
	Laterals, Fittings and Appurtenances	
Approved Material	Division 400, Section 402, Sub-section III Service	5/14/2012
Armorcast	Laterals, Fittings and Appurtenances	
Approved Material	Division 400, Section 402 Sub-section I Pipes and	11/9/2011
Romac	Appurtenances	
Approved Material	Division 400, Section 402 Sub-section I Pipes and	9/14/2011
IPEX	Appurtenances	
Rescinding Approval for	Division 200, Section 203 Concrete Cylinder Pipe	7/15/2011
Concrete Cylinder Pipe	and Fittings	
Rescinding Approved	Division 400, Section 402 Sub-Section I Pipes and	4/29/2011
Material	Appurtenances	
Royal Pipe Systems		
Approved Material	Division 400, Section 402 Sub-section I Pipes and	11/4/2010
METCO	Appurtenances	
Approved Material	Division 400, Section 402 Sub-section I Pipes and	5/6/2010
Advance products and	Appurtenances	
Systems		

Approved Material	Division 400, Section 402 Sub-section I Pipes and	1/19/2010
Garlock	Appurtenances	
Approved Material	Division 400, Section 402 Sub-section I Pipes and	11/10/2009
North American Pipe	Appurtenances	
Corporation		
Approved Material	Division 400, Section 402 Sub-section I Pipes and	10/27/2009
Multi Fittings	Appurtenances	
Approved Material	Division 400, Section 402 Sub-section I Pipes and	8/14/2009
Diamond Plastics	Appurtenances	
FM Meter & Box Standard	Division 400, Section 403 Standard Details	5/18/2009
Details		
Approved Material	Division 400, Section 402, Subsection III Service	2/24/2009
Polytubes	Laterals, Fittings and Appurtenances	
Minimum Utility Depth	Division 100, Section 102 Mains, Sub-section	
	102.03 Cover & Division 400, Section 403 Standard	12/31/2008
	Details	
Approved Material	Division 400, Section 402 Sub-section II Valves	12/18/2008
American R/D	and Appurtenances	12/18/2008
Approved Material	Division 400, Section 402, Sub-section III Service	12/4/2008
Armorcast	Laterals, Fittings and Appurtenances	amended
		5/18/2012
Distance between main valves	Division 100, Section 103 Sub-section 103.01	10/21/2008
	Location, Type, Working Pressure	10/21/2008
Nuts and bolts for flanged	Division 200, Section 202.04 Flanged Joint and	
joints and fire hydrant break-	Section 206.1 General	3/18/2008
off bolts		
Approved Material	Division 400, Section 402 Sub-section I Pipes and	10/31/2007
Sigma Corporation	Appurtenances	10/31/2007
Approved Material	Division 400, Section 402 Sub-section I Pipes and	5/4/2007
Star Pipe Products, Inc.	Appurtenances	3/4/2007
Electronic Markers	New requirement	8/25/2006
Approved Material	Division 400, Section 402 Sub-section V Paints and	1/27/2004
Pratt & Lambert	Coatings	1/2//2004
Cathodic protection	Division 500, Section 1.2 (Part 2), Table 3	10/15/2003
Approved Material	Division 400, Section 402 Sub-section I Pipes and	
Tripac Fasteners & NSS	Appurtenances	8/12/2003
Industries		
Nuts and bolts for mechanical	Division 200, Section 202.02 Mechanical Joint	7/22/2002
joints		7/22/2003
Approved Material	Division 400, Section 402 Sub-section I Pipes and	6/20/2002
Romac	Appurtenances	6/20/2003
Approved Material	Division 400, Section 402 Sub-section V Paints and	5/02/0002
Sherwin Williams	Coatings	5/23/2003

Rescinded 4/29/2011 Approved Material	Division 400, Section 402 Sub-section I Pipes and Appurtenances	5/19/2003
Royal Pipe Systems		0, 13, 2003
Approved Material FSC Coatings	Division 400, Section 402 Sub-section V Paints and Coatings	5/12/2003
Dis-approved Material Powerseal	Division 400, Section 402 Sub-section I Pipes and Appurtenances	3/24/2003
Approved Material James Jones	Division 400, Section 402 Sub-section III Service Laterals, Fittings and Appurtenances	11/27/2002
Approved Materials for Globe Valves	Division 400, Section 402 Sub-section II Valves and Appurtenances	11/22/2002
Approved Material PPG Industries	Division 400, Section 402 Sub-section V Paints and Coatings	7/11/2002