# Continuing Education for Water Operators



Mariana Islands Water Operator Association

November 14, 2012 Pacific Islands Club, Saipan

# Today's Agenda

- > About Continuing Education
- > Current Events
  - Hurricane Sandy
- > Main Events Measuring Flow
- > Association Business

Continuing Education for Water Operators

Is THIS training required?



# Why have continuing education?

- DEQ Regulations require certified operators to have 10 contact hours of continuing education per year (30 contact hours in 3 years) to maintain certification.
- DEQ is not required to offer training (and no longer offers training – no \$\$\$)
- > Where would operators get training?

# Other training options

- Professional training provided by your employer (safety, pump maintenance, lab procedures, etc.)
- ➤ College classes
- Conferences or workshops by professional organizations or agencies
- > Correspondence courses
- ➤ On-line opportunities

Instructor - Gary Byrd/Derek Chambers

## NOT continuing education

- > Meetings with DEQ or EPA
- > Surveys or inspections by DEQ or EPA
- Reading journal articles or textbooks by yourself
- Googling water operator stuff on the internet

## When should training be offered?

- > DEQ surveyed all certified operators
- > Results
  - One 3 hour session every 3 months
  - In morning
  - On a Wednesday
- > First session September 6, 2006

#### 2006 - 2008 (DEQ)

- > September 6, 2006: Chlorination
- > November 8, 2006: Using a Pump Curve
- > February 7, 2007: Cross Connection
- > May 9, 2007: Regulations CCR, PNR
- > August 8, 2007: Sizing Pressure Tanks
- > November 26, 2007: PWS workshop
- > February 20, 2008: Fluoridation
- > May 2008: Process Controls (Robert Brokate)
- > August 2008: Slow Sand Filters
- > November 12, 2008: TCR and Control Valves

# **2009 MIWOA**

- ➤ March 25, 2009: Security and Filters
- > May 13, 2009: Alt. Energy, CCR, Compliance
- > August 5, 2009: Geology of Saipan, GWR
- > October 9, 2009: GWR Workshop
- > December 2, 2009: Valves, Spills, Walkerton

#### **2010 MIWOA**

- > February 3, 2010: Safety, Haz Materials
- ➤ May 5, 2010: BEH & DEQ, Cross Connections
- August 11, 2010: Waste Water Collection/Treatment
- November 3, 2010: Response to disease outbreak

#### **2011 MIWOA**

- February 2011: Chemical Injection Pumps (HRWA)
- > May 2011: Radiation, Radionuclide Rule
- July 2011: Utility Policies & Procedures; Standard Operating Procedures (HRWA)
- > November 2011: Leak detection

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#### **2012 MIWOA**

- > February 2012: Bottled Water; Reverse Osmosis; Bottle Sanitation
- May 2, 2012: Inspecting Tanks, Water Meters
- August 8, 2012: Wastewater membrane filtration (Lau Lau Golf Hotel)
- November 2012: Metering and measuring flow

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#### **2013 MIWOA**

- ▶ February: ??
- ▶ May:??
- > August: wastewater
- ➤ November: ??
- ➤ Sometime in 2013 Backflow Assembly Tester Training (by Texas A&M Engineering Extension Service)

# THIS TRAINING IS FOR YOU!

We'll do what we can to make it what YOU want it to be!

Mariana Islands
Water Operator Association

# Suggestions for training

- Possible topics for upcoming sessions:
  - Backflow prevention device testing
  - Rainwater
  - Local Water System
  - How Reverse Osmosis Works
  - Energy efficiency
- Storm water and erosion control
- Introduction to waste water treatment
- Field trip
- Cleaning and handling bottles
- Leak detection

**Announcements** 

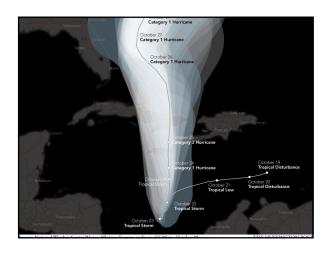
 Certificates from the last 6 classes are posted on the website (May 2011 – August 2012)

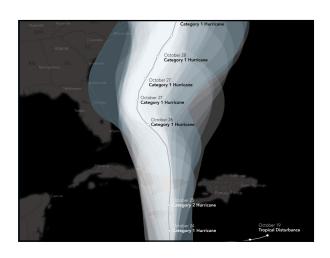
www.MarianasOperators.org

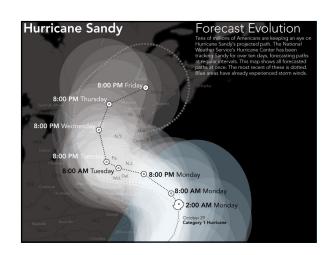
# **Current Events**

November 2012









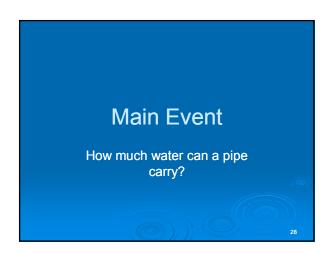




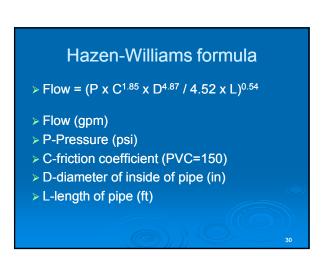


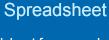






# Pipe properties Pipe properties that determine flow: Diameter Length Material (roughness) Other properties Pressure





> See spreadsheet for examples



# **Board Member Terms**

- ➤ Chair: Derek Chambers May 2013
- ➤ Vice chair: Bernard Keremius May 2013
- > Secretary: Mariano Iglecias May 2014
- > Treas: Cecilio Raiukiulipiy May 2015

# **Contact Information**

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