

## Continuing Education for Water Operators



Mariana Islands  
Water Operator Association

May 2, 2012  
Pacific Islands Club, Saipan

1

## Today's Agenda

- About Continuing Education
- Current Events
  - Garapan Sewer Line Replacement
- Main Events – Inspecting Tanks
- Main Events – Water Meters
- Association Annual Meeting

2

## Continuing Education for Water Operators



3

Is THIS training required?

➤ NO

4

## 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?

5

## 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

6

### 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

7

### 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

8

### 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

9

### 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

10

### 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

11

### 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

12

## 2012 MIWOA

- February 2012: Bottled Water; Reverse Osmosis; Bottle Sanitation
- May 2012: Inspecting Tanks, Water Meters
- August 2012: Wastewater membrane filtration (Lau Lau Golf Hotel)

13

## 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

14

## 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

15

## Announcements

- Next session will be in August 2012 at Lau Lau Golf Hotel
- Website updates
  - Instructor bios
  - PowerPoint handouts

16

## Current Events

May 2012

17

## Garpan Sewer Line Replacement

LCDR Brian Bearden, USPHS  
Engineer, CUC

18

Break - 5 minutes



19

## Main Event

Tank Inspections

[Link to webcast \(1 hour\)](#)

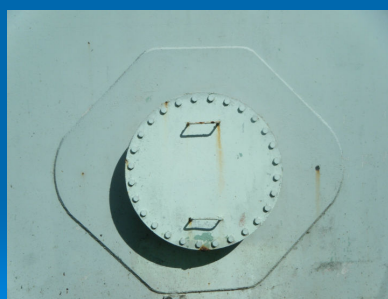
20

## Examples of Tanks



21

## Palau



22



23



24



25



26



27



28



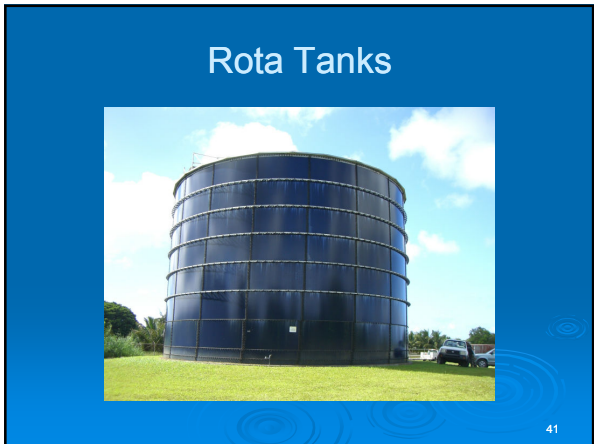
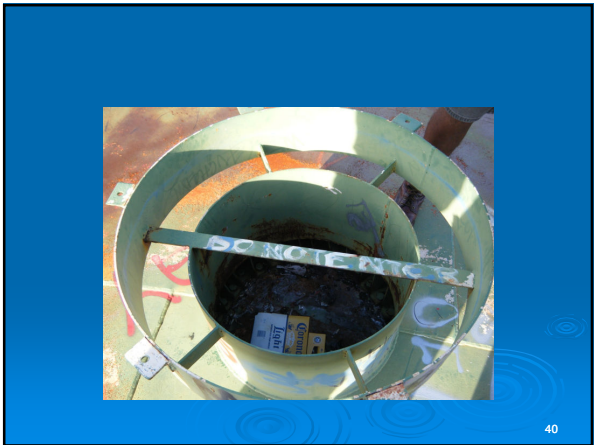
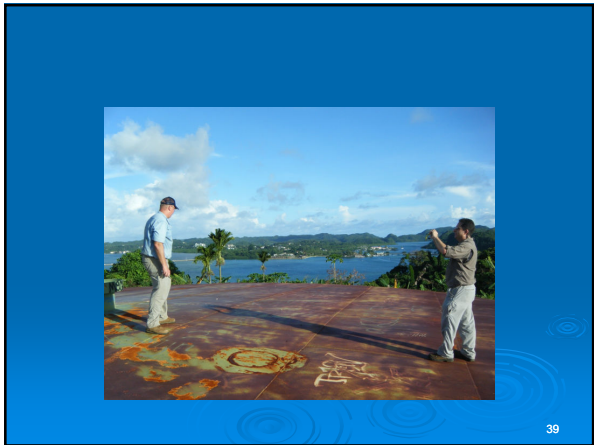
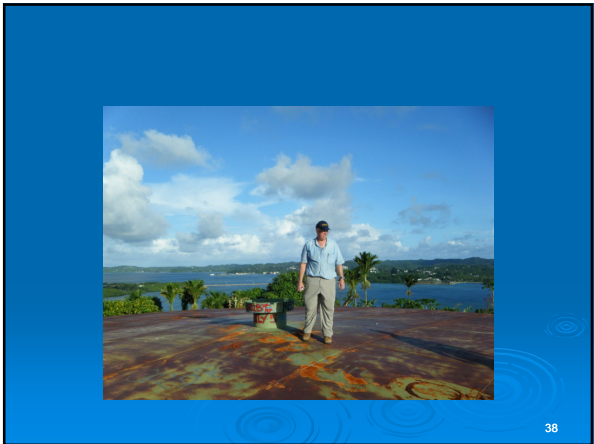
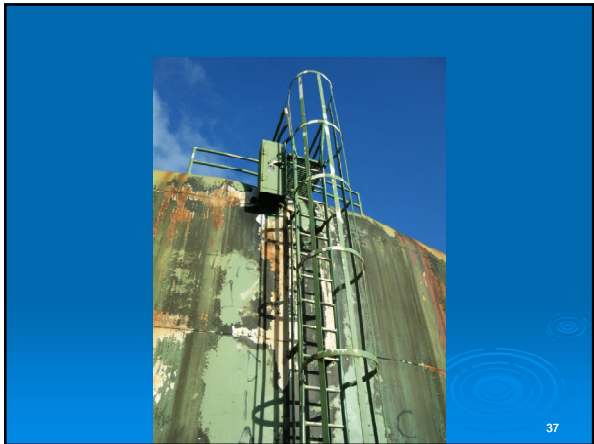
29



30







### Saipan Tanks -Tasa



43

### Saipan Tanks – Old Hospital



44

### Guam



45

### Break -10 minutes



46



### Association Business

Lending Library  
Board Elections

47

### Association Lending Library

- List is on the website
- Four new certification study manuals
- Sacramento State ("Ken Kerri") Books

48



### Board Member Terms

- Chair: Derek Chambers – May 2013
- Vice chair: Bernard Keremius – May 2013
- Secretary: Mariano Iglecias – May 2014
- Treas: Cecilio Raiukiulipiy – May 2012

49

### Contact Information

Mariana Islands Water Operator Association  
P.O. Box 502512  
Saipan, MP 96950

[www.MarianasOperators.org](http://www.MarianasOperators.org)

e-mail

[info@MarianasOperators.org](mailto:info@MarianasOperators.org)

50