



**STATE OF HAWAII**  
**DEPARTMENT OF HEALTH**  
**SAFE DRINKING WATER BRANCH**  
ULUAKUPU BLDG. 4  
2385 WAIMANO HOME ROAD, SUITE 110  
PEARL CITY, HI 96782-1400

In reply, please refer to:  
File: **SDWB**  
Minutes 5-25-2021

**BOARD OF CERTIFICATION OF PUBLIC WATER SYSTEM OPERATORS**  
**MINUTES OF THE MEETING**

DATE: May 25, 2021

TIME: 10:00 a.m. to 11:00 a.m.

MEMBERS PRESENT: Eric Okazaki (2<sup>nd</sup> term expires 6/30/21)  
Guy Moriguchi (1<sup>st</sup> term expires 6/30/22)  
Glenn Ah Yat (2<sup>nd</sup> term expires 6/30/23)  
Mark Prescott (2<sup>nd</sup> term expires 6/30/24)  
Jodi Yamami (2<sup>nd</sup> term expires 6/30/24)

This meeting was conducted by video-teleconference in accordance with the Twentieth Proclamation Related to the COVID-19 Emergency provisions.

A. Call to Order

- The meeting began at 10:00 a.m.

B. Old Business

- The Board unanimously approved the February 23, 2021 meeting minutes.

C. New Business

- DSO Certification Applications

The Board unanimously approved the following applications for certification:

|   | <b>Name</b>      | <b>Grade Requested</b> | <b>Grade Approved</b> |
|---|------------------|------------------------|-----------------------|
| 1 | Nishihira, Kasey | DSO 1                  | DSO 1                 |
| 2 | Owensby, Reese   | DSO 1                  | DSO 1                 |
| 3 | Yamamura, Kurt   | DSO 1                  | DSO 1                 |
| 4 | Aki, Harry       | DSO 2                  | DSO 2                 |
| 5 | Besmer, Zachary  | DSO 2                  | DSO 2                 |

|    |                  |                   |                                    |
|----|------------------|-------------------|------------------------------------|
| 6  | Bush, Cody       | DSO 2             | DSO 2                              |
| 7  | Fuchigami, Jacob | DSO 2             | DSO 2                              |
| 8  | Horner, Darren   | DSO 2             | DSO 2                              |
| 9  | Mollena, Joseph  | DSO 2             | DSO 2                              |
| 10 | Agtarap, Elmer   | DSO 3             | DSO 3                              |
| 11 | Waikiki, Neil    | DSO 4             | DSO 4                              |
| 12 | Bowman, John     | DSO 4 Reciprocity | DSO 1 Reciprocity<br>DSO 4 Regular |
| 13 | Karl, Anthony    | DSO 4 Reciprocity | DSO 4 Reciprocity                  |

For detailed information on the DSO applications, please refer to Attachment 1.

- WTPO Certification Applications

The Board unanimously approved the following applications for certification:

|   | <b>Name</b>     | <b>Grade Requested</b> | <b>Grade Approved</b> |
|---|-----------------|------------------------|-----------------------|
| 1 | Amano, Leonore  | WTPO 1                 | WTPO 1                |
| 2 | Nagoshi, Ryan   | WTPO 1                 | WTPO 1                |
| 3 | Bamsey, Duncan  | WTPO 2                 | WTPO 2                |
| 4 | Evans, Troy     | WTPO 2                 | WTPO 2                |
| 5 | Kamakele, Leila | WTPO 2                 | Deny                  |
| 6 | Hannon, Patrick | WTPO 4                 | WTPO 4                |
| 7 | Karl, Anthony   | WTPO 2 Reciprocity     | WTPO 1 Regular        |
| 8 | Bowman, John    | WTPO 4 Reciprocity     | WTPO 4 Reciprocity    |

For detailed information on the WTPO applications, please refer to Attachment 2.

- CEU Requests

The Board unanimously approved the following CEU requests:

|   | <b>Course</b>  | <b>Date</b> | <b>Sponsor</b>     | <b>CEUs Approved</b> |
|---|--|-------------|--------------------|----------------------|
| 1 | Electrical Preventative Maintenance Program Implementation | 2/19/21     | Grace Technologies | 0.1                  |
| 2 | Energy Efficiency Program                                  | 3/4/21      | NRWA               | 0.1                  |

|    |   |           |                      |        |
|----|---|-----------|----------------------|--------|
| 3  | Plumbers Continued<br>Competency Course 2015<br>Code                    | 3/20/21   | UHMC                 | 0.4    |
| 4  | Disinfection Byproducts<br>Control                                      | 3/30/21   | US EPA               | 0.1    |
| 5  | Very Small Systems  | 4/27/21   | US EPA               | 0.1    |
| 6  | Enhanced Aquifer Recharge   | 4/28/21   | US EPA               | 0.1    |
| 7  | Prepare for Supply Chain<br>Disruptions                                 | 4/29/21   | US EPA               | 0.1    |
| 8  | Releases to Sources of<br>Drinking Water                                | 5/13/21   | US EPA               | 0.1    |
| 9  | Harmful Algal Blooms and<br>Algal Toxins                                | 5/25/21   | US EPA               | 0.1    |
| 10 | New England Water Sector<br>Cybersecurity Forum                         | 5/26/21   | US EPA               | 0.2    |
| 11 | Utility Leadership and Staffing<br>for Water Operators                  | 6/9/21    | RCAC                 | 0.2    |
| 12 | Asset Management for Water<br>Operators, Paying the Bills               | 6/8/21    | RCAC                 | 0.2    |
| 13 | Emergency Response<br>Planning/Cybersecurity                            | 6/17/21   | RCAC                 | 0.2    |
| 14 | AWIA Risk and Resilience<br>Assessments and<br>Emergency Response Plans | Repeating | HRWA                 | 0.6    |
| 15 | PFAS  | Repeating | HRWA                 | 0.3    |
| 16 | OSHA 30 Hour Outreach<br>Training Program –<br>Construction             | Online    | 360training          | 3.0    |
| 17 | HAZWOPER 8 Hr Annual<br>Refresher                                       | Online    | 360training          | 0.8    |
| 18 | Confined Space Program  | Online    | OSHAcade<br>my       | 0.7    |
| 19 | Decision Making in High<br>Stress Situations                            | Online    | LinkedIn<br>Learning | 0.025  |
| 20 | Decision Making Strategies  | Online    | LinkedIn<br>Learning | 0.0375 |
| 21 | Decision Making Strategies<br>for Optimal Team<br>Performance           | Online    | LinkedIn<br>Learning | 0.025  |
| 22 | Management Foundations  | Online    | LinkedIn<br>Learning | 0.0375 |
| 23 | Management Top Tips   | Online    | LinkedIn<br>Learning | 0.1    |

|    |   |        |                   |      |
|----|---|--------|-------------------|------|
| 24 | Managing Employee Performance Problems                                    | Online | LinkedIn Learning | 0.05 |
| 25 | Managing Team Conflict  | Online | LinkedIn Learning | 0.05 |
| 26 | Managing Teams  | Online | LinkedIn Learning | 0.05 |
| 27 | New Manager Foundations   | Online | LinkedIn Learning | 0.05 |
| 28 | Time Management for Managers  | Online | LinkedIn Learning | 0.05 |
| 29 | Risk Assessment and Emergency response Planning for Utility Professionals | Online | CEU Plan          | 0.1  |

For detailed information on the CEU requests, please refer to Attachment 3.

- DSO Certification Exam Results

The Board was notified of the following results of the DSO certification exam administered from February 14, 2021 thru May 15, 2021. Computer-based exams were given on Oahu and Maui. Paper-based exams were given on Molokai, Kauai, Lanai, and the Big Island. Nine out of 34 operators passed for an overall passing rate of 26%.

|    | <b>Examinee</b>      | <b>Grade</b> | <b>Certification</b> |
|----|----------------------|--------------|----------------------|
| 1  | Adric, Keola         | 1            | None                 |
| 2  | Augustiro, Franklin  | 1            | None                 |
| 3  | Carias, Gabriel      | 1            | D1-505               |
| 4  | Costales, Jimmy      | 1            | None                 |
| 5  | Echallas, Roland     | 1            | None                 |
| 6  | Huffine, Christopher | 1            | None                 |
| 7  | Ing, Matthew         | 1            | None                 |
| 8  | Lima-English, Anoi   | 1            | None                 |
| 9  | Melchor, Florendo    | 1            | D1-506               |
| 10 | Pontin, Keal         | 1            | D1-504               |
| 11 | Purdy, Wesley        | 1            | None                 |
| 12 | Tabangcura, Wilfred  | 1            | None                 |
| 13 | Kansana, Rhinehardt  | 2            | D2-310               |
| 14 | Oducado, Justin      | 2            | D2-309               |

|    |                    |   |        |
|----|--------------------|---|--------|
| 15 | Rowland, Matthew   | 2 | D2-308 |
| 16 | Seumalo, Vaai      | 2 | None   |
| 17 | Shigematsu, Tyrus  | 2 | None   |
| 18 | Starkey, Nathan    | 2 | D2-311 |
| 19 | Uehara, Kamalani   | 2 | D2-307 |
| 20 | Yoshioka, Wiley    | 2 | None   |
| 21 | Humphrey, Kevin    | 3 | None   |
| 22 | Iwai, Franklin     | 3 | None   |
| 23 | Naungayan, Darroll | 3 | None   |
| 24 | Silva, Jeffrey     | 3 | None   |
| 25 | Dudoit, Mevin      | 4 | None   |
| 26 | Hirata, Ray        | 4 | D4-286 |
| 27 | Miyataki, Reid     | 4 | None   |
| 28 | Padilla, Lawrence  | 4 | None   |
| 29 | Pang-Kee, Adrian   | 4 | None   |
| 30 | Pascua, Joseph     | 4 | None   |
| 31 | Pascual, Donald    | 4 | None   |
| 32 | Paulino, Alfred    | 4 | None   |
| 33 | Whaley, Will       | 4 | None   |
| 34 | Yagin, Edison      | 4 | None   |

| <b>Grade</b> | <b>Passed</b> | <b>Examinees</b> | <b>Passing Rate</b> |
|--------------|---------------|------------------|---------------------|
| <b>DSO 1</b> | <b>3</b>      | <b>12</b>        | <b>25%</b>          |
| <b>DSO 2</b> | <b>5</b>      | <b>8</b>         | <b>63%</b>          |
| <b>DSO 3</b> | <b>0</b>      | <b>4</b>         | <b>0%</b>           |
| <b>DSO 4</b> | <b>1</b>      | <b>10</b>        | <b>10%</b>          |
| <b>Total</b> | <b>9</b>      | <b>34</b>        | <b>26%</b>          |

- **WTPO Certification Exam Results**

The Board was notified of the following results of the WTPO certification exam administered from February 14, 2021 thru May 15, 2021. Computer-based exams were given on Oahu and Maui. Paper-based exams were given

on Molokai, Kauai, Lanai, and the Big Island. Six out of 11 operators passed for an overall passing rate of 55%.

|    | <b>Examinee</b>        | <b>Grade</b> | <b>Certification</b> |
|----|------------------------|--------------|----------------------|
| 1  | Evans, Troy            | 1            | T1-233               |
| 2  | Hale, Devin            | 1            | T1-235               |
| 3  | Martin, Matthew        | 1            | None                 |
| 4  | Nerveza, Juan          | 1            | T1-234               |
| 5  | Willet, Koree          | 1            | None                 |
| 6  | Winfrey, David         | 1            | T1-236               |
| 7  | Martinez, Daniel       | 2            | None                 |
| 8  | Murashige, Keiven      | 2            | None                 |
| 9  | Sawran, Mark           | 3            | T3-047               |
| 10 | Hooks, Ash             | 4            | None                 |
| 11 | Landgraf, Andrew-James | 4            | T4-135               |

| <b>WTPO Exam Results</b> |               |                  |                     |
|--------------------------|---------------|------------------|---------------------|
| <b>Grade</b>             | <b>Passed</b> | <b>Examinees</b> | <b>Passing Rate</b> |
| <b>WTPO 1</b>            | <b>4</b>      | <b>6</b>         | <b>67%</b>          |
| <b>WTPO 2</b>            | <b>0</b>      | <b>2</b>         | <b>0%</b>           |
| <b>WTPO 3</b>            | <b>1</b>      | <b>1</b>         | <b>100%</b>         |
| <b>WTPO 4</b>            | <b>1</b>      | <b>2</b>         | <b>50%</b>          |
| <b>Total</b>             | <b>6</b>      | <b>11</b>        | <b>55%</b>          |

D. Announcements

- This is Eric Okazaki's last meeting as Board Member. Thank you, Eric, for your commitment throughout all your years of service!
- James Landgraf will begin his first term as Board Member at the August meeting.
- The next board meeting is scheduled for August 24, 2021.

E. Adjournment

- The meeting adjourned at 11:00 a.m.

Respectfully Submitted,



Jodi Yamami  
Board of Certification of  
Public Water System Operators

JY:sa

- c: Anna Yen, U.S. EPA Region IX [via [yen.anna@epa.gov](mailto:yen.anna@epa.gov) only]  
Adam Ramos, U.S. EPA Region IX [via [ramos.adam@epa.gov](mailto:ramos.adam@epa.gov) only]  
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Mark Prescott, Board Member [via [mprescott90@gmail.com](mailto:mprescott90@gmail.com) only]

ATTACHMENT 1  
DSO DECISIONS  
5-25-2021

- |  |  |                               |
|--|--|-------------------------------|
| <p>1    <b>Nishihira, Kasey S. Grade 1</b><br/>229 Kualapuu<br/>Supervisor Rhinehardt Kansana<br/>Laborer<br/>1 yr/5 mos</p>   | <p>Pipefitting, tank flushing, chlorine delivery, lateral changing, water main repair, meter servicing, valve &amp; hydrant exercise</p>   | <p><b>Approve Grade 1</b></p> |
| <p>2    <b>Owensbey, Reese W. Grade 1</b><br/>117 Hawaiian Beaches<br/>Supervisor Mark Prescott<br/>OIT<br/>1 yr/1 mo</p>      | <p>Daily component and system checks (pump hours and run time, tank level, water production), review treatment process and determine proper dosage of chemicals required, install, troubleshoot, repair and relace underground water mains and service laterals, install water meters, meter boxes, test, read and repair water meters, collect and document water samples to determine water temperature and levels of chlorine and contamination such as lead and copper, document and ensure the accuracy of sampling, respond to inquiries and investigate and resolve customer complaints, operate and maintain water quality, sources of supply, and disinfection, routine flushing of water lines to maintain water quality</p> | <p><b>Approve Grade 1</b></p> |
| <p>3    <b>Yamamura, Kurt H. Grade 1</b><br/>212 Wailuku<br/>Supervisor Cullen Falces<br/>Pipefitter Helper<br/>1 yr/8 mos</p> | <p>Clean/flush out standpipes and hydrants to rid of stagnant water or debris, take water samples to check on chlorine levels, gather tools and fittings, help put together pipe fittings and install or remove hydrants &amp; piping, operate machinery used to compact ground, cut or loosen bolts/piping</p>  | <p><b>Approve Grade 1</b></p> |
| <p>4    <b>Aki, Harry K. Grade 2</b><br/>234 Kaunakakai<br/>Supervisor Keola Yasso<br/>Laborer<br/>3 yrs/9 mos</p>             | <p>Maintain water system tanks, structures, improvements, repair transmission mains 2"-12", maintenance of hydrants, standpipes, collect well samples, check Cl2 residuals, check pH &amp; soda ash, assist with meter reading, repair water meters and change out, fill hypo and repair hypo pump</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul>   | <p><b>Approve Grade 2</b></p> |
| <p>5    <b>Besmer, Zachary J. Grade 2</b><br/>237 Lanai City<br/>Supervisor Joy Gannon<br/>DSO Apprentice<br/>2 yrs/2 mos</p>  | <p>Check chlorine levels, check well locations f or damages or leaks, check water line for leaks and repair, flush and maintain hydrant flows to make sure they are good for flow pressures, check PRV pressures</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul>   | <p><b>Approve Grade 2</b></p> |



ATTACHMENT 1  
DSO DECISIONS  
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- |  |   |                               |
|--|---|-------------------------------|
| <p>6    <b>Bush, Cody I. Grade 2</b><br/>248 Kawela Plantation<br/>Supervisor Mervin Dudoit<br/>Water Operator<br/>2 yrs</p>       | <p>Daily rounds include: checking chlorine residual at injection site and at the end of the water system, check well sites including flowmeter, hour meter, amps, volts and leaks, check psi at potable tank sites making sure they are the same as SCADA, check booster station, check chlorine room and pump, lines and meter is clean and in proper working order, turn on/off pumps and adjust tank levels, read water meters, learn how to install meters and backflow preventers, identify and repair water leaks, set up and annual flushing program</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul> | <p><b>Approve Grade 2</b></p> |
| <p>7    <b>Fuchigami, Jacob K. Grade 2</b><br/>237 Lanai City<br/>Supervisor Joy Gannon<br/>DSO Apprentice<br/>4 yrs/2 mos</p>     | <p>Check and maintain chlorine disinfection points, check, maintain and repair water meters, check and service PRVs</p>   | <p><b>Approve Grade 2</b></p> |
| <p>8    <b>Horner, Darren M. Grade 2</b><br/>400 Lihue Kapaa<br/>Supervisor Chris Nakamura<br/>Pipefitter<br/>8 yrs</p>            | <p>Responsible for maintaining, operating, and installing various type and size of pipelines and appurtenances including A/C, galvanized steel, ductile iron, cast iron, copper, PVC, HDPE from 1/2" to 24"</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul>   | <p><b>Approve Grade 2</b></p> |
| <p>9    <b>Mollena, Joseph M. Grade 2</b><br/>239 Kalaupapa<br/>Supervisor Matt Padget<br/>Utility Operator<br/>13 yrs</p>         | <p>Daily meter reading, daily chlorine samples, keep data reports on water usage, yearly reports, CCR, water audits, repairs and adjustments on system, flushing dead end lines and exercising valves and fire hydrants, operating pump house, work on everything from well head to building plumbing</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul>   | <p><b>Approve Grade 2</b></p> |
| <p>10    <b>Agtarap, Elmer O. Grade 3</b><br/>237 Lanai City<br/>Supervisor Joy Gannon<br/>Utilities Analyst<br/>3 yrs/1 mo</p>    | <p>Review and analyze monthly pumping and complete CWRM reports, complete monthly utility billing, assist with total coliform testing, assist with chlorides and conductivity, change out meters, resolve service order issues, utility project management</p> <ul style="list-style-type: none"><li>• DSO Grade 2 certified</li></ul>  | <p><b>Approve Grade 3</b></p> |
| <p>11    <b>Waikiki, Neil H. Grade 4</b><br/>212 Wailuku<br/>Supervisor Cullen Falces<br/>Flusher/Pipefitter Helper<br/>11 yrs</p> | <p>Flush and obtain chlorine residuals, assist in repairing mains and services, flush out, disinfect and chlorinate prior to putting back into service</p> <ul style="list-style-type: none"><li>• DSO Grade 1 certified</li></ul>  | <p><b>Approve Grade 4</b></p> |

ATTACHMENT 1  
DSO DECISIONS  
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- 12 **Bowman, John T. Grade 4 Reciprocity** **Approve Grade 1 Reciprocity, Approve Grade 4 Regular**  
OMI Prescott Valley  
Utilities Director  
10 yrs  
Repair all main line and serv ice lined breaks, flushing and maintaining fire hydrants, exercise and maintain all main line valves, all system sampling, state reporting, customer service work, and meter reading
- Current Florida Drinking Water Class A Certification #32136 expires 4/30/2023
  - Florida Drinking Water Class A is the highest out of 4 water treatment certifications
  - Florida Drinking Water Class A requires
    - High school diploma
    - Completion of specified training course
    - 5 years of qualified experience
    - Passing of a Class A treatment exam
  - Florida Drinking Water Class A operator is also allowed to be the Distribution System operator for the system without having a separate distribution certification – applicant does not have a separate distribution certification
  - Florida Drinking Water Class A exam is equivalent to Hawaii Water Treatment Plant Grade 4 exam in accordance with ABC Exam Equivalency Chart
  - Current Georgia Water Distribution Operator certification #WD014557 expires 6/30/2021
  - Georgia Water Distribution Operator is the only distribution certification
  - Georgia Water Distribution requires
    - High school diploma
    - Completion of specified training course
    - 3 months of qualified experience
    - Passing of a Water Distribution exam
  - Georgia Water Distribution exam is equivalent to Hawaii Distribution Operator Exam Grade 1
  - Applicant was certified at the highest Arizona Grade 4 Water Distribution System Operator in 2011 but let it lapse after obtaining certification in Florida and Georgia
  - Arizona Grade 4 Water Distribution Operator exam is equivalent to Hawaii Distribution Operator Grade 4 exam
  - Hawaii Grade 1 requirements are met with a combination of both Florida and Georgia requirements for reciprocity
  - Applicant meets requirements for Hawaii Grade 4 examination

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- 13 **Karl, Anthony C. Grade 4 Reciprocity** **Approve Grade 4 Reciprocity**
- Various California Water Systems      Repair of distribution PRVs, SCADA, sampling, cla-vals, booster station, tank inspections, valve exercising, hydrant repair, mapping into database, meter testing and rebuilding, meter installments and reading, monitor wells, maintenance of backflow/cross connections, flushing, CCR, chlorination dosing and adjustment
- Utility Operator
- 20 yrs
- Current California Water Distribution Operator Grade D4 #27152 expires 9/1/2023
  - California Water Distribution Operator Grade D4 is the second highest out of 5 water distribution certifications
  - California Water Distribution Operator Grade D4 requires
    - High school diploma
    - Completion of specified training course
    - 4 years of qualified experience
    - Passing of a Grade D4 treatment exam
  - California prepares its own treatment exam

ATTACHMENT 2  
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- 1 **Amano, Leonore C. Grade 1** **Approve Grade 1**  
212 Wailuku  
Chlorination  
Supervisor Dean Tanimoto  
25 yrs

Responsible for water quality testing operations, respond to emergencies that may have an adverse impact on the quality and quantity of water as DRC of water system, analyze and resolve distribution daily and adjust chlorine feed rates as needed through SCADA controls

  - DSO Grade 4 certified
  
- 2 **Nagoshi, Ryan M. Grade 1** **Approve Grade 1**  
212 Wailuku  
Chlorination  
Supervisor Dean Tanimoto  
18 yrs

Duties include DRC of water system in monitoring overall water system status, acting on system alarms, making necessary disinfection adjustments using SCADA, provide maintenance and support for surface water treatment plant's SCADA on chlorine and pH dosing equipment, chlorine and pH analyzers, and turbidity meters

  - DSO Grade 4 certified
  
- 3 **Bamsey, Duncan W. Grade 2** **Approve Grade 2**  
165 Kona Water Service  
RO  
Supervisor David Kadowaki  
3 yrs/1 mo

Take daily plant & SCADA rounds, reads, and checks, monitor plant's automated cleaning process, change pre-filters, maintain chlorination, anti-scalant and anti-corrosion systems by refilling tanks, purging air from pumps and injection lines, assist rebuilding product pumps, assist in fabricating and installing flared copper tubing lines, assist in testing vessel water samples for electrical conductivity, total dissolved solids, and pH to monitor performance, assist cleaning the permate flush tank, replace train vessel seals, track usage of water treatment products for plant efficiency

  - WTPO Grade 1 and DSO Grade 2 certified
  
- 4 **Evans, Troy P. Grade 2** **Approve Grade 2**  
213 Makawao  
Microfiltration  
Water Treatment Plant Worker  
Supervisor Marvin Ignacio  
2 yrs

Assist operators in running plants, transport, handle, and store chemicals for treatment process, service and repair filtration modules, service and repair automatic and manual valves, use laboratory equipment to test water quality, keep records of maintenance and water quality, troubleshoot issues with plant

  - WTPO Grade 1 certified
  - Application is for the October 2021 exam

ATTACHMENT 2  
WTPO DECISIONS  
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|   |  |   |                        |
|---|--|---|------------------------|
| 5 | <b>Kamakele, Leila K. Grade 2</b><br>430 PMRF<br>Chlorination, Fluoridation<br>Supervisor Rodney Martin<br>11 yrs            | Treat water with both chlorine gas and fluoride, conduct daily checks of 2 treatment plants, check and adjust as necessary fluoride saturation tank, check chlorine gas rotameter for proper operation and leaks and adjust based on residual <ul style="list-style-type: none"><li>• WTPO Grade 1 and DSO Grade 4 certified</li></ul>  | <b>Deny Grade 2</b>    |
|   | Waiahi Water Treatment Facility<br>Membrane Filtration<br>Supervisor Brad Suizu during<br>pilot test<br>3 yrs                | Pilot test Zenon MBR with Jeff Beaty, included multiple Microscopic Particulate Analysis Sampling of raw water and finished water after MBR treatment, pilot unit tested in all conditions the island had to offer, after meeting all DOH requirements, actual plant was built and operated, jar testing required to dial in on chemical usage within the MBR system, work with DOH to collect all required yearly chemical sampling <ul style="list-style-type: none"><li>• Applicant job duties in sampling is not sufficient to be considered work experience in the operation of a water treatment plant</li><li>• Pilot plant is not considered a water treatment plant. By definition in HAR Chapter 11-25-2 a water treatment plant means the various facilities used in the treatment of water serving a public water system. This pilot plant did not serve the public water system.</li></ul> |                        |
| 6 | <b>Hannon, Patrick K.D. Grade 4</b><br>214 Lahaina<br>Direct Filtration, Microfiltration<br>Supervisor Jason Koskey<br>3 yrs | Operate and maintain Mahinahina & Lahaina WTP by monitoring Cl2 and chemical additives for water quality adjustment due to fluctuating conditions from raw intakes, take daily number and input data for record management, perform backwashes on membrane & multimedia/sand filters, and take grab samples to perform daily lab testing  | <b>Approve Grade 4</b> |
|   | 209 Olowalu<br>Chlorination<br>Supervisor Dave Minami<br>Water System Operator<br>1 yr/4 mos                                 | Monitor and manipulate Cl2 content based on well pump output, perform daily testing and data entry, order, construct and operate chlorination system for Haiku Town Acres <ul style="list-style-type: none"><li>• WTPO Grade 2 and DSO Grade 1 certified</li></ul>  |                        |

ATTACHMENT 2  
WTPO DECISIONS  
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- 7 **Karl, Anthony C. Grade 2 Reciprocity** **Deny Grade 2 Reciprocity, Approve Grade 1 Regular**  
Various California Treatment Plants  
Chlorination  
Utility Operator  
20 yrs  
Chlorination dosing and adjustment, repair of chlorine pumps
- Current California Water Treatment Operator Grade T2 #28408 expires 6/1/2021
  - California Water Treatment Operator Grade T2 is the fourth highest out of 5 water treatment certifications
  - California Water Treatment Operator Grade T2 requires
    - High school diploma
    - Completion of specified training course
    - Passing of a Grade T2 treatment exam
  - California prepares its own treatment exam
  - Applicant has only chlorination experience and qualifies to take the Hawaii WTPO Grade 1 exam only – no reciprocity because no prior experience required for California T2
- 8 **Bowman, John T. Grade 4 Reciprocity** **Approve Grade 4 Reciprocity**  
Northern Illinois Water  
Conventional Treatment  
Production Superintendent  
20 yrs  
Operate 7 MGD water treatment facilities including filtration and chemical feeding of chlorine gas, fluoride, zinc ortho phosphate, potassium permanganate, process control shift lab analysis to ensure correct dosage and treatment to meet process targets
- Current Florida Drinking Water Class A Certification #32136 expires 4/30/2023
  - Florida Drinking Water Class A is the highest out of 4 water treatment certifications
  - Florida Drinking Water Class A requires
    - High school diploma
    - Completion of specified training course
    - 5 years of qualified experience
    - Passing of a Class A treatment exam
  - Florida Drinking Water Class A exam is equivalent to Hawaii Water Treatment Plant Grade 4 exam in accordance with ABC Exam Equivalency Chart

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**Hawaii Courses**

- 1 **Electrical Preventative Maintenance Program Implementation**  
2/19/21  
Grace Technologies  
1.0 Contact Hours  
**0.1 CEUs**  
Topics included:
  - Put Safety First
  - Operational Readiness
  - Develop Processes
  - Develop Plans
  - Develop Procedures
  - Make Access Easy
  - Manage Changes
  - Continually Improve
  
- 2 **Energy Efficiency Program**  
3/4/21  
NRWA  
1.0 Contact Hours  
**0.1 CEUs**  
This webinar reviews the role of an Energy Efficiency Technician in developing and implementing a systematic energy management program. Goals are to determine how energy is used, identify areas of major energy usage, and develop strategies to reduce that usage.
  
- 3 **Plumbers Continued Competency Course 2015 Code**  
3/20/21  
UHMC  
4.0 Contact Hours  
**0.4 CEUs**  
This course covers the changes in the 2015 Uniform Plumbing Code (UPC) and covers relevant sections in the UPC.
  
- 4 **Disinfection Byproducts Control**  
3/30/21  
US EPA  
1.0 Contact Hours  
**0.1 CEUs**  
This presentation will discuss Web-based application (WBA) development and their practical application in providing kinetic simulations of inorganic chloramine chemistry as well as the equilibrium chemistry between free chlorine and chlorinated cyanurates. It will also introduce the use of a WBA to assess chloramine demand.
  
- 5 **Very Small Systems**  
4/27/21  
US EPA  
1.0 Contact Hours  
**0.1 CEUs**  
This presentation will provide information that can help small utilities evaluate the flooding threat, identify vulnerable assets and consequences, and select effective mitigation strategies and financing options. It will also focus on challenges and additional rule requirements for noncommunity public water systems.
  
- 6 **Enhanced Aquifer Recharge: Influence of Stormwater on Groundwater Quality and Aquifer Recharge**  
4/28/21  
US EPA  
1.0 Contact Hours  
**0.1 CEUs**  
Topics include:
  - Enhanced Aquifer Recharge Using Stormwater
  - Potential Impacts to Groundwater
  - Assessment of Stormwater Harvesting to Develop New Water Supplies

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- 7 **Prepare for Supply Chain Disruptions**  
4/29/21 This webinar will share information about supply chain resilience (chemical and critical manufacturing sector) needs of the water and wastewater sectors with US EPA first-hand accounts in critical infrastructure supply chain resilience.  
1.0 Contact Hours  
**0.1 CEUs**
- 8 **Releases to Sources of Drinking Water**  
5/13/21 This webinar will provide recommendations about resources that can be used to identify and characterize potential sources of contamination to sources of drinking water such as facilities. It will provide an overview of the capabilities of the Drinking Water Mapping Application to Protect Source Water and how it may be used to initiate source water and risk assessments.  
US EPA  
1.0 Contact Hours  
**0.1 CEUs**
- 9 **Harmful Algal Blooms and Algal Toxins**  
5/25/21 Topics include:  
US EPA  
1.0 Contact Hours  
**0.1 CEUs**
- Harmful Algal Bloom Technical Assistance in El Salvador
  - How Cyanobacteria Work: Converting Sunlight into Usable Energy
  - Cyanotoxins in Oregon: Transitioning to Mandatory Monitoring
- 10 **New England Water Sector Cybersecurity Forum**  
5/26/21 This webinar will share information about cybersecurity incidents and vulnerabilities relating to the drinking water and wastewater sectors. It will give attendees appropriate information to help reduce their vulnerabilities to cyber attacks through presentations of case studies, mitigative measures, and tools. Water sector leaders will share their firsthand accounts of challenges and steps they have taken to address cybersecurity vulnerabilities.  
US EPA  
2.0 Contact Hours  
**0.2 CEUs**
- 11 **Utility Leadership and Staffing for Water Operators**  
6/9/21 This session will provide small utility operators with information and resources to help improve the overall management and operation of their system. Leadership and staff retention issues will be discussed and information on EPA's Effective Utility Management resources will be provided.  
RCAC  
2.0 Contact Hours  
**0.2 CEUs**
- 12 **Asset Management for Water Operators, Paying the Bills**  
6/8/21 This session is designed to introduce water operators to the asset management process, showing how the use of asset management can benefit their utility from a planning, cost and management standpoint. Examples of asset management tools will be presented with a demonstration of a recently developed Excel tool for small utility asset management planning. This tool will be used in to give the participating operators hands on experience with how it works.  
RCAC  
2.0 Contact Hours  
**0.2 CEUs**



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13 **Emergency Response Planning/Cybersecurity**

6/17/21

RCAC

2.0 Contact Hours

**0.2 CEUs**

This session will provide an overview of the emergency response planning requirements for utility operators, including a presentation on cybersecurity issues related to small utilities. A tabletop exercise will be run for operators to simulate their response to an extreme weather event or power outage that affects their operations.

**Repeating Courses**

14 **AWIA Risk and Resilience Assessments and Emergency Response Plans**

HRWA

6.0 Contact Hours

**0.6 CEUs**

This course is designed to provide Managers and Operators with a comprehensive understanding on how to conduct Risk and Resilience Assessments and create and or update their Emergency Response Plans. Also included are reporting requirements, strategies, monitoring practices, storage and handling of chemicals as well as capital and operational needs for risk management.

15 **PFAS**

HRWA

3.0 Contact Hours

**0.3 CEUs**

This class will teach the basic understanding about PFAS within water and wastewater industries and why they are now being discussed. The topics covered are the UCMR, what PFAS are, where do they come from, health effects and how can they be treated.

**Correspondence/Online Courses**

16 **OSHA 30 Hour Outreach Training Program – Construction**

360training

30 Contact Hours

**3.0 CEUs**

This program will provide a comprehensive overview of the policies, procedures, and best practices in OSHA's 29 CFR 1926 standards for construction. The course covers vital information about all the significant hazards found on a construction site.

17 **HAZWOPER 8 Hr Annual Refresher**

360training

8 Contact Hours

**0.8 CEUs**

This program will provide an overview of personal protective equipment, decontamination, confined space entry, medical surveillance, and standard emergency procedures. It will also teach how to recognize hazards to ensure preparedness in responding to dangerous conditions.

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18 **Confined Space Program**

OSHAcademy  
7 Contact Hours  
**0.7 CEUs**

Topics included:

- Basic Requirements of OSHA Standard 29 CFR 1910.146
- Permit-Required Confined Spaces
- Confine Space Program Components
- Categories of Confined Spaces
- Atmospheric Hazards
- Non-Atmospheric Hazards
- Controlling Hazards
- Duties and Responsibilities
- Confined Space Rescue
- Confined Space Training and Drill

19 **Decision Making in High Stress Situations**

LinkedIn Learning  
0.5 Contact Hour  
**0.025 CEUs**

Topics included:

- Preparing Yourself
- Options and outcomes
- Getting Insights
- Emergency Leadership
  
- ½ credit for general management content

20 **Decision Making Strategies**

LinkedIn Learning  
0.75 Contact Hour  
**0.0375 CEUs**

Topics included:

- Decision Making as a Process
- Styles of Decision Making
- Stakeholder Management
- Managing Ambiguity
- Making a Decision
  
- ½ credit for general management content

21 **Decision Making Strategies for Optimal Team Performance**

LinkedIn Learning  
0.5 Contact Hour  
**0.025 CEUs**

Topics included:

- Create a Culture of Innovation
- Adapt Your Management Style
- How to Surface Great Ideas
- Lead an Open, Participatory Organization
- Use Outcome Blind analysis to Evaluate the Quality of Your Decisions
  
- ½ credit for general management content

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22 **Management Foundations**

LinkedIn Learning  
0.75 Contact Hour  
**0.0375 CEUs**

Topics included:

- The Manager's Perspective
- Managing Performance
- Delegation
- Doing Your Work
  
- ½ credit for general management content

23 **Management Top Tips**

LinkedIn Learning  
2.0 Contact Hours  
**0.1 CEUs**

Topics included:

- Leveraging Assertiveness
- Time Management for Managers
- Project Management
- Sales
- Leadership
- Negotiating
- Presentations
  
- ½ credit for general management content

24 **Managing Employee Performance Problems**

LinkedIn Learning  
1.0 Contact Hours  
**0.05 CEUs**

Topics included:

- Understanding Employee Performance Problems
- Coaching Employees
- Executing the Coaching Process
- Strengthening Performance Management Efforts
  
- ½ credit for general management content

25 **Managing Team Conflict**

LinkedIn Learning  
1.0 Contact Hours  
**0.05 CEUs**

Topics included:

- Sources of Team Conflict
- Conflict Resolution Skills
- Identify and Apply conflict Behaviors
  
- ½ credit for general management content

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26 **Managing Teams**

LinkedIn Learning  
1 Contact Hour  
**0.05 CEUs**

Topics included:

- Managers Chart the Course
  - Managers Motivate Their Teams
  - Managers Develop Each Person on Their Team
  - Best Practices in Managing Teams
  - Managing Different Types of Teams
- 
- ½ credit for general management content

27 **New Manager Foundations**

LinkedIn Learning  
1 Contact Hour  
**0.05 CEUs**

Topics included:

- Surviving the First Month
  - Connecting with the Team
  - Building Trust
  - Using Authority Successfully
  - Managing Change
- 
- ½ credit for general management content

28 **Time Management for Managers**

LinkedIn Learning  
1 Contact Hour  
**0.05 CEUs**

Topics included:

- Managing People
  - Managing Projects
  - Managing Priorities
- 
- ½ credit for general management content

29 **Risk Assessment and Emergency Response Planning for Utility Professionals**

CEU Plan  
1.0 Contact Hour  
**0.1 CEUs**

This course focuses on preparing the risk assessment and emergency response plan required by the USEPA 2018 America's Water Infrastructure Act for water utility professionals.