

CA-NV AWWA
METER COMMITTEE
SUB-COMMITTEE OF WATER DISTRIBUTION DIVISION
2018 SUMMER MEETING MINUTES

Aug 21, 2018, Burbank

I. Greeting & Introduction

- Meeting called to order by Michele Harvey at 11:01 AM.
- Committee Chair – Michele Harvey
- Vice Chair – Todd Artrip
- Secretary – Open (Jeff Beckett filled in)
- No Cal Delegate-at-Large – Open
- So Cal Delegate-at-Large, Rick Small (not present)

II. Sign-In Sheet

- 54 in attendance – attendance sheet passed around – 39 utility personal present and 15 manufactures representatives.
- Michele Harvey / Chair
 - It helps to have everyone contact information.
 - So when other utilities have questions and or issues we can query all other utilities that might be able to answer and or have had similar issues and concerns.
 - Our new goal is to have the prior meeting minutes distributed to the attendees within 2 weeks of the adjourned meeting, for any corrections that might need to be made.
 - At that point if all is good, the minutes will be forwarded to the rest on the committee roster within 4 weeks of the meetings end.
 - This will enable non attendees to view and experience the meeting.
 - Welcomed new attendees.

III. Meeting Event Host

- The group acknowledged and thanked Burbank Water & Power for hosting the event.

IV. Winter Meeting Follow-up

- The winter meeting was held in in Ripon California, unfortunately we have not received the finished minutes to go over them and approve.
- From now on we would like a person that is on the leadership, to take minutes if the secretary is not present.
- CEU's
 - Everyone who attended the last winter meeting for the 1 hour CEU's, I still have the list of names and should have them together by the end of the month.
 - If you haven't received it by Sept 1st, email Michele Harvey.
- Additional sheet for meeting topics / CEU's passed around.
 - We might be able to have these at the quarter meeting level and or at the conference level also.
 - The utilities need to bring up topics that would be best suited for them, if not the vendors will and that might not be what the utilities are looking for.

Potential CEU Topics

- ❖ The importance of large meter testing and tracking (presented Winter 2018)
- ❖ Meter mechanical / no moving parts
- ❖ Meter installation
- ❖ Backflow record keeping / testing / make and models
- ❖ Reading old & new meter register components
- ❖ Load rating for meter boxes and other information
- ❖ Ultrasonic vs. Mechanical
- ❖ Customer engagement for AMI, AMR & Cellular
- ❖ Water audit ideas, methods and how in depth
- ❖ Developing benchmarks for time and or use to develop calibration programs for utility meters
- ❖ Ultrasonic vs. Mag Meters
- ❖ Developing a calibration program for single unit meters

New Ideas This Meeting

- ❖ Meter Testing Data (what to do with it) – Dan / Helix
- ❖ Factors affecting meter accuracy
- ❖ Testing meters with portable testers (ex. PD testing a Multi-jet)
- ❖ Testing procedure for different types of meters
- ❖ Water meter + meter boxes – tagging and tracking methods
- ❖ Test bench requirements for testing ultrasonic commercial meters

V. Upcoming Events

- Water Education Seminar – Orange, CA – August 22nd
 - Always in august we have a 1 day seminar usually on Wednesday in early August at Santiago Canyon College in Orange, CA. There is normally 700 in attendance. This is more targeted towards operators.
 - This used to be called the “JIC” Joint Instrumentation Control Group, now it is called “WES” Water Education Seminar.
 - Kevin Cornejo / Mueller Systems
 - I presented last year and it went great. This is hands on and worthwhile if you can attend.
 - Michele Harvey / Chair
 - They have a vendor setup also and it is good for networking.
- Fall Conference – Palm Springs, CA – October 22nd to 25th
 - Meter Committee Meeting – October 22nd @ 3:00p
- Meter Committee Winter Meeting – Northern California Location TBD – Targeting January 21st
- Spring Conference – Sacramento, CA – March 25th to 28th
 - Meter Committee Meeting – March 25th Proposed time @ 3p
 - They try to consistently schedule the spring conference the week prior to Easter.
- Nancy Jenkins / Best Meter
 - There is a vender fair coming up @ Irwindale Speedway on September 13th from 9:00am to 2:00pm.
 - Anyone that would like to attend and or needs more information can contact Nancy.

VI. Technical Presentations Fall Show – Wednesday, October 24th

- Meter Committee
- 7:30 - 08:30 Top Down and Bottom Up Business Case for Water Meters and AMI
- 10:00 – 10:30 Smart Cities Technology: Beyond the Marketing
- 10:30 – 11:00 Improving Water System Operations & Customer Service to the End User via AMI
- 11:30 – 12:00 Avoid the Truck Roll – Survey of Remote Shut-Off Meters
- Water Management & Efficiency
- 1:30 – 2:30 Managing an AMI and Meter Installation Project from Start to Finish
- 2:30 – 3:00 Post AMI implementation and non-revenue discovery
- 4:00 – 4:30 New Smart Metering Options for Medium to Small Sized Utilities
- 4:40 – 5:00 getting to know Jane and John Smith – Using Data to Drive Customer Communication & Engagement

VII. NSI / AWWA C715 Cold Water Meters – *Electromagnetic and Ultrasonic Type, for Revenue Applications*

- Michele Harvey / Chair
 - First residential meters sold in 2007 and there hasn't been a standard yet.
 - ANSI is in review of the publication and we should expect to hear by the end of the year for the approval.
 - Today's test bench benches might need an upgrade to be able to test these low flows.
 - Some meters have a test mode that increases the sampling rate which reduces the amount of water needed for the ultra low flow tests; however, it is not required to use this feature
- Dave Wallenstein / East bay MUD
 - There is a bit of controversy about low flow test $\frac{1}{4}$ gpm for PD and $\frac{1}{8}$ for Ultrasonic and Mag Meter
- Carlos Garcia / LADWP
 - We perform large meter testing in the field and on test benches
- Todd Artrip / Sacramento Suburban Water
 - These should be tested with a minimum of 100gal, also you need to make sure there is some type of backpressure to get an accurate test. If you are just flowing water without it, it will not be as accurate.
- Teo Pasillas / Walnut Valley Water
 - We have done testing on ultrasonic meters with a 10' stand pipe for back pressure, seeing if this would be enough back pressure.
 - We are running on a portable tester not on a bench test
 - What test data is being run against the data received in the field compared to the AMI data during this same time later on that night and how does it compare.
- David Coachella
 - We have done bench testing, but have not compared it to the AMI data.

VIII. AB 3206 Meter Accuracy and Testing

- Michele Harvey / Chair
 - The state is going to define what the meter accuracy is going to be, what is the standard and the requirements for meter testing.
 - What is required for water audit Information, this is coming in from agencies to guide this to the legislation.

- Sue Mossberg and myself are being asked for more information and input on this.
- We are pushing to have everything based on the AWWA standards and manuals, we have had a lot of that changed on the bill in the last few months.
- There is no current deadline for implementation and or definitions; however I am thinking 2022.
- Theresa Lancy / City of Santa Barbara
 - What is the time line for implementation, what may or may not be required?
- Pat Parsons / Best Meter
 - There are 2 legislative topics that might be pertinent to industry but no necessarily relative or pertinent to the water meter committee.
 - Senate Bill 998 – This would prohibit discontinuation of residential water service Urban and Community waters systems for delinquent payment. (This is currently in Sacramento and they are trying to push it through)
 - Senate Bill 623 – Safe & Affordable Drinking Water Act, the state would like to charge a tax of \$0.95 per meter per month and or up to \$10 per meter per month. (This bill is also currently in Sacramento)
 - The San Gabriel Water Authority is opposing this. The state water board is considering this a tax, as the utilities are seeing it as a fee. No one know where the funds would go.

IX. Words from our sponsor

- Dave Lopez / MeterSYS Solutions

We are a professional consulting firm that offers services for the implantation of AMR and AMI. We help utilities develop a selling point to show your executives. Financial business analysis, CMA and Logic management. Basically we evaluate all of the vendors out there and bring you the best solution for your fit. As most of you know, an AMI system is “Not a one shoe fits them all”. It really depends on you geography, topography. Every area for a utility is different, these are thing we take into account. I have a background in water, 25 years at Eastern Municipal Water District managing there meter shop. The firm I work for has over 50 years in working with utilities and the municipal business. We are based in Raleigh NC.

X. Open Discussion

Meter Testing Programs & Standards

- Pat Parsons / Best Meter
 - Talks about sub metering and AB106
- Ron Gallon / Zenner
 - What California has been doing for some while with weights and measures, they have been dictating to vendors about testing requirements for sub metering. So it is natural that they are going to be going after the other metering we do in so California.
 - Those in the sub metering know that we have a different criteria than the AWWA requirements.
- Michele Harvey / Chair
 - When deciding what type of meter will be used for an application, at the engineering level it needs to be discussed to make sure there is enough straight piping for accurate meter testing.
 - Unfortunately this is not always available. It is always a good idea to test the new meter right after it gets installed so you can get an accurate assumption of how that meter will perform in that particular location / setup. This will also give you

information vs a comparative basis on future testing at that meter and performance.

- Jody Johnson / Walnut Valley Water District
 - We have a residential meter testing program and are on our second cycle. We pull random meters (10%) from different routes and test them.
 - We found that meters from the first round were not performing well. We ended up replacing the chambers in the end and then retested a random percentage of them, they were good to go.
 - We also test all of our large meters in a 3 year cycle, using our own people and testing them in the field..
- Brian Jensen / Coreandmain
 - All water meters being tested in the field should have a bypass and isolated, you will never get an accurate result otherwise.
- Bob Huizenga / Burbank Water and Power
 - 98% of our large meters are tested annually. The majority of these are tested by a subcontractor at each meter site while utilizing a bypass so the water being used by the consumer is not interrupted nor affecting the test. We also perform a few large meter tests in house depending on the sensitive nature of the business... I.e. Airport and or Studios.
- Jeff Beckett / Burbank Water and power
 - All of our large water meters are equipped with some type of bypass, this would either consist of a fixed bypass line and or a removable bypass assembly. Our meters are field tested in place to get the most accurate assessment.

Meter Inventory and Replacement

- Dan Baker / Helix Water District
 - We replace water meters on age, used to be on a 15 year cycle. Now we are on a 20 year cycle. Some meters also get replaced based on usage.
- Javier Romero / LADWP
 - Our meters are replaced both on age and based upon our water audits. We have over 700,000 meters in the system. 31,000 are scheduled for replacement.

Meeting Adjourned 12:58 pm by Michele Harvey

Attendees: *Note: Attendees that signed in are on list*

Artrip, Todd	Sacramento Suburban Water
Baker, Dan	Helix Water District
Barragan, Sergio	LADWP
Beckett, Jeff	Burbank Water & Power
Bernard, Clifton	Burbank Water & Power
Cardona, Carlos	San Gabriel Co Water
Chora, Rosemarie	City of Oceanside
Coffman, Dave	Veolia North America
Cordero, Martin	City of Victorville
Cornejo, Kevin	Mueller Systems

Cruz, Alfonso	Coachella Valley Water District
Desoto, Anthony	LADWP
Ferrell, Shelley	Kamstrup
Gallon, Ron	Zenner
Garcia, Carlos	LADWP
Gomez, Gabriel	Liberty Utilities
Gonzales, Cesar	CVWD
Gonzalez, Armando	Liberty Utilities
Harvey, Michele	Badger Meter
Huizenga, Bob	Burbank Water & Power
Jenkins, Nancy	The Best Meter Co.
Jensen, Brian	Core & Main
Johnson, Jodi	Walnut Valley Water District
Khanjian, Gary	Armorcast
Kidd, Blake	Ford Meter Box
Lambros, Chris	Core & Main
Lancy, Theresa	City of Santa Barbara
Leano, Ethan	Golden State Water Co.
Lee, Gary	Aclara
Lopez, David	MeterSYS solutions
Martin, David	Coachella Valley Water District
Massie, David	Glendale Water & Power
Mastic, Mike	Mars Water
Matrone, Megan	Corix Water Products
Milauskas, Adam	Ferguson Water Works
Mitchell, Kevin	Burbank Water & Power
Monk, Tom	Walnut Valley Water District
Noriega, George	City of Monterey Park
Ogg, Joe	City of Victorville
Parsons, Pat	The Best Meter Co.
Pasillas, Teo	Walnut Valley Water District
Peterson, Albert	Glendale Water & Power
Rivera, Ruben	Coachella Valley Water District
Rodriguez, Anthony	LADWP
Romagnino, Mike	Glendale Water & Power
Romero, Javier	LADWP
Sanchez, Adolfo	LADWP
Sitarz, Brian	Old Castle Enclosures
Standi, John	Golden State Water Co.
Strolsee, John	Glendale Water & Power
Tapia, Chris	City of Oceanside
Vera, David	Monterey Park Water
Wallenstein, David	East Bay MUD

Westendorff, Ken
Wolfson, John

Glendale Water & Power
Badger Meter