

ASPELA TIMES

The News of the Los Angeles Chapter of The American Society of Plumbing Engineers

www.aspela.com

April 2023

Volume 23 Issue IV

PRESIDENT'S REPORT Thura Zin CPD, GPD President



February Speaker:
Todd McCurdy
National Sales Manager
Watts Water Technologies

The March 1st meeting was in our typical location in Burbank and since we are not allowed to have virtual attendees anymore, unlike last month's ASHRAE SoCal and ASPE – LA Chapter joint meeting, we had 31 attendees in person. I hope next meeting more members will join us in person. It was very cold and windy that day for our meeting that day, so I appreciate our ASPE members who were able to join us.

I would like to thank our March meeting's speaker from Watt Water Technology, Todd McCurdy for his presentation. The April meeting speaker, Jaime is the retired Director from Piping Industry Progress and Education Trust Fund (P.I.P.E). During last year's IAPMO 93rd Annual Education and Business Conference, Jaime received the American Flag Award, due to his contributions and long-standing support.

Our April meeting is in person only. We would like to encourage our chapter members to join our in-person meeting.

During last month's board meeting we planned our family picnic scheduled for October 8, 2023, and Kook will be the Chair of the event. We are going back to Elysian Park's Old Lodge Picnic Area near Dodger's Stadium.

please continue reading on page 20

April Meeting

Date: **April 5, 2023**

Time: Check-in will start at 5:30pm. Presentation to begin at 7:00 pm.

Place: **Courtyard Marriott**
2100 Empire Avenue
Burbank CA 91504

Program: **Breaking Down the NFPA 99**

Speaker: **Mr. Jaime Valdivia**
ASSE 6010 & ASSE 6050

Future events include:

- ASPE Golf
- ASPE Product Show

See inside for Details...



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AMERICAN SOCIETY OF PLUMBING ENGINEERS LOS ANGELES CHAPTER

April 5, 2023, Meeting

“Topic: Breaking Down the NFPA 99”

By Mr. Jaime Valdivia

Title: ASSE 6010 & ASSE 6050

WHAT YOU WILL LEARN:

The presentation will cover the following topics, with time for questions:

- The Sections that cover the Scope for Medical gas
- A Brief description of the associated chapters
- History of the NFPA 99

THE SPEAKER:



MEETING LOCATION:

In Person:
COURTYARD BY MARRIOTT BURBANK
2100 W EMPIRE
AVE, BURBANK, CALIFORNIA 91504

MEETING SCHEDULE:

5:30 pm – Check in
6:30 pm – 7:30 pm – Presentation

COST:

In Person \$45

RSVP Required

To VP Tech - vptech.aspela@gmail.com or
Vahan.Margaryan@arup.com

By: April 4, 2023

BIO:

- 40 Years in the Plumbing & Pipefitting Industry.
- Journeyman Plumber & Journeyman Pipefitter
- 39 Years Certified as a Medical Gas Installer
- President of U.A. Local 398 Pomona Ca.
- Graduate of the United Association Training Program, Associates in Applied Science in Industrial Training, Bachelor of Arts in Labor Education and Current Instructor at the International Training Program At Washtenaw Community College in Michigan.

If you have additional questions or needed information on his presentation, you can reach him at: Mr.Hime@outlook.com

For more information, visit our website
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*See back page for schedule

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TECHNICAL REPORT

Vahan Margaryan CPD, GPD
V.P. Technical

Finally, ASPE LA chapter conducted their first in-house, in-person meeting. We had 30 + attendees, which is a little less than what we were expecting. Hopefully, we will see an increasing number of attendees as we go further along.

As stated in my previous article, we will be having our April meetings in our original location – Courtyard By Marriott at 2100 Empire Ave, Burbank, CA 91504. However for the May 3rd meeting ASPE Board is coordinating with ASPE’s longtime friend Amir Tabakh (LADWP) and his team to conduct presentation in relatively new La Kretz Innovation Campus building. Please note that RSVP will be required to visit LADWP facility. While RSVP is very desirable for any ASPE meetings, it is mandatory for the May 3rd meeting – we need to share the attendees list with the LADWP security to get clearance, you might not be able to get into the facility by just showing up at the gate.

Mark your calendar for following ASPE LA activities:

1. Golf Tournament- Friday, June 16, 2023. Official flyer will be posted on our website soon
2. ASPE LA Chapter product show and technical seminar – August 16th, 2023. Location will be announced later as we are still in process of coordination with couple of venues.
3. Summer picnic - tentatively scheduled for October 8th, 2023

Reminder -the 2023 ASPE Tech Symposium, will be held from September 28 – October 1, 2023 in Bellevue, Washington (outside of Seattle). It will be the premier professional development event for plumbing engineers and designers to learn new skills, advance their careers, and improve productivity for their companies and clients. If you are interested to present at this event, please submit your application at aspe.org/2023-presenter-application.

The Society of Fire Protection Engineers (SFPE), the world’s leading professional society for fire protection and fire safety engineering, announces the opening of registration for its first 2023 Principles and Practice of

continued on page 13

AT LAST – IT’S ARRIVED!

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TEST REPORT

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<http://www.iapmort.org>

Report Number: 2536-18001-002 Project No.: 29225
Report Issued: February 26, 2018.
Client: Aqua-Rex
3301 Spring Mountain Road Ste 18
Las Vegas, NV 89102 Contact: Jonny Secombe
Source of Samples: The samples were shipped to IAPMO R&T Lab from Aqua-Rex, and received in good condition on October 11, 2017.
Date of Testing: October 25, 2017 through December 15, 2017.
Sample Description: Scale Prevention Device; model: Aqua-Rex WK1-E.
Scope of Testing: The purpose of the testing is to determine the efficacy of the Scale Prevention Device per section 5 of IAPMO IGC 335-2018, entitled "Rapid Scaling Test for Scale Prevention Devices".

CONCLUSION: **When tested per Section 5 of IAPMO IGC 335-2018, Aqua-Rex WK1-E reduced scaling by 83% when applied to Las Vegas water heated to 180°F.**

Tested by,

Reviewed by,

Hanks Ninh
Hanks Ninh, Project Engineer

Sean Vuu
Sean Vuu, P.E., Manager, Specialty Projects

LEGISLATIVE REPORT • Vivian Enriquez CPD, FASPE • V.P. Legislative

Apologies for missing the March 1, 2023 meeting! Anyway, I want to blame it on the rain, but hey, that was a very lame excuse, right?

How many of you have checked the LADWP website lately? Not very much, I would think, unless you are paying your bills!! Do you know that the governing rules regarding electric and water service was established on September 4, 1983 and the last update was amended by Resolution dated October 8, 2008?

I would like to revisit and share with you, in this report, the governing water service as amended by Resolution, as follows:

Rule No. 1 deals with definitions and I will not discuss it here.

PART 1-W TERMS AND EXPRESSIONS GENERALLU APPLICABLE TO THE WATER SYSTEM:

Acreage Supply: Acreage Supply Charge District: The area within boundaries fixed by the Department where an Acreage Supply Charge, in addition to normal facilities installation charges, is made to each Applicant for service therein.

Acreage Supply Charge: The Acreage Supply Charge Rate applied on the acreage in the Gross Area of Applicant's Property to apportion the cost of water supply facilities within the Acreage Supply Charge District.

Acreage Supply Charge Rate: The average rate to be charged per acre, or fraction thereof, of the Gross Area of the Applicant's Property. The Acreage Supply Charge Rate is computed by dividing the total acreage in the District Net Area into the total cost of additional water supply facilities required to supply the District. The cost of normal Distribution Mains, and water production and treatment facilities is excluded from this computation.

Billing Unit: A measured quantity of water equivalent to 100 cubic feet (748 gallons).

Chief Engineer of Water Works: The Chief Engineer of Water Works and Assistant Manager.



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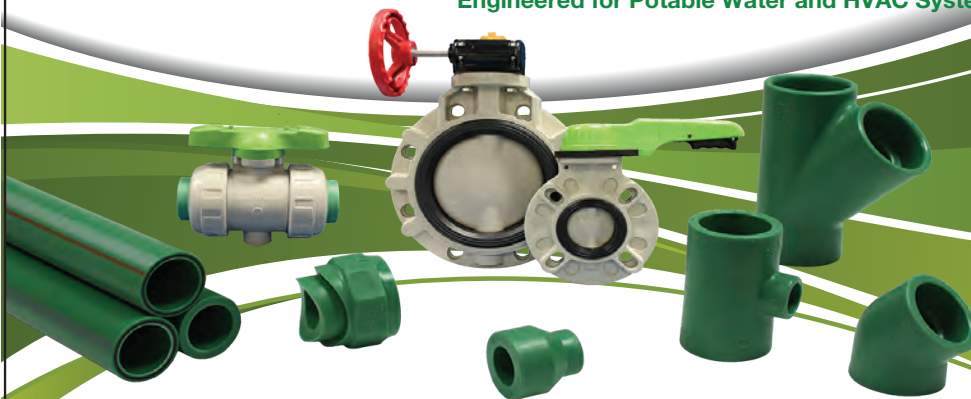
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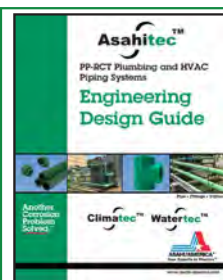
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Sporting Clays Shotgun Shooting Fundraiser offered by Moore and Moore Sporting Clays to benefit Scout Troop 209, Burbank



When: Saturday, April 15, 2023

Sign-in starts at 7:15 a.m. Shooting starts at 8:00 a.m.

Where: Moore N' Moore Sporting Clays

12651 Little Tujunga Canyon Road, Sylmar, CA 91342

818-890-4788

How Much: \$150 per person

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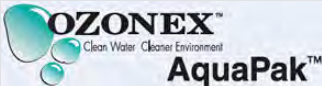
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continued from page 5

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Friday, June 16, 2023



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- Banner Recognition
- One Golf Foursome
- Four Hole Sponsor Sign
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- Banner Recognition
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- Two Hole Sponsor Signs

Breakfast or Lunch: \$825

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- Banner Recognition
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- Banner Recognition

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- Drink ticket and prizes

All payments must be received no later than Friday, May 26th, 2023!! Receipt of payment is required for registration and/or inclusion in the signage. Thank you for your cooperation. Please Note: that all advertisement with Sponsorships will begin in 2024 and will run from January to January. Anyone wanting to advertise in the ASPE-LA Newsletter should expect to pay at the beginning of the year.

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All proceeds from the tournament will benefit the ASPE Los Angeles Chapter. Reservations will be confirmed by receipt of registration and sponsorship fees.



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MEMBERSHIP REPORT

Robert Galaviz CPD
V.P.Membership

First things first, I'd like to welcome the following new ASPE members: Vishal Diddi P.E. and Mauricio Campos P.E. Welcome to the LA Chapter!

Thanks are also in store for those who made it to the joint ASPE & ASHRAE meeting that took place in February.

As far as the current membership news, we are adding new head count but need to do a better job ensuring that existing members with expiring memberships renew as soon as possible.

If any members are having difficulties with the renewal process or have been experiencing any hardships that might prevent you from renewing, please reach out to any member of the LA ASPE Board. We'd be glad to help.

If you'd like to sign up to become a member or renew your membership, please visit the following URL: <https://www.aspe.org/membership-global-community/join/>



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John Brooks, MWS
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PRESIDENT: continued from page 1

Please save that date and enjoy a nice day of picnic and fun with us.

Our annual golf tournament is scheduled for Friday June 16, 2023. Our Golf Committee Chair Bill Siler will be sending out his flyer once everything is set. We'll let everyone know when we have more details about the event, please save that date too.

Our next 2023 ASPE Technical Symposium is in Bellevue, Washington, from September 28 to October 1, 2023. This will be a two-and-a-half-day conference. At the symposium, you all can choose a variety of professional development sessions in several tracks to customize your learning experience. Registration will open in April. Save the date!

We're also planning our LA Chapter products show and technical sessions on coming August 16. Technical sessions will be in the morning and the product show will take place after lunch. We plan on having 3 or 4 technical sessions, each session will last about 2 or more hours. Please save this date as well and we look forward to seeing you at hopefully all our exciting upcoming events!

As always, do not hesitate to reach us or any board member for any topics that you may want to see in any of our technical programs. Watch your email for the next meeting invite and I look forward to seeing you all at the next meeting.

I want to wish you all a wonderful upcoming spring season.

Please take care of yourselves and each other. Stay Safe.



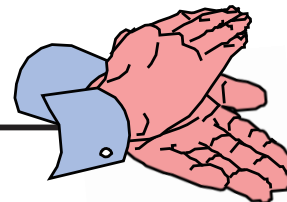
WHO Showed up?

Attendance for the **March 2023** Meeting...

The total number in attendance was

31!

plus our speaker!




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PROJECT BACKGROUND

A 32-story, new construction, 500-unit apartment building known as 360 State Street in New Haven, Connecticut, wanted to install an innovative submetering system to track the residents' water & hot-water heating data while providing tenants with an easy-to-use web portal to access and manage their utility data.



H2O Degree delivered a submetering system consisting of a 1,000 dual point-of-entry water meters (hot & cold) and 591 thermostats. The battery-powered wireless water meters communicate with the thermostats. The thermostats act as transceivers, a unique feature of H2O Degree's wireless network, which results in substantial savings compared to using traditional wireless repeater networks. When considering the minimal wiring it took to set up the radios and ZigBee mesh network the system uses, the system was the most cost effective option for the building.



PLUMBING CONFIGURATION

The dual point-of-entry submetering at 360 State Street means that the plumbing is configured so that one riser branches into the apartment for cold water. A second



riser delivers domestic hot water created centrally by recovering heat from a CHP system. Water enters the apartment in the utility closet and there are two water meters in each apartment, one for cold and one for hot water.

WATER & ENERGY CONSERVATION SAVINGS

Typical 1-2 bedroom apartments at 360 State Street average 45 to 55 gallons of water use per day. This is almost half the national average of 70-90 gallons per day. This savings is the result of billing tenants for water and proactive water leak detection. Another energy-savings benefit came from billing tenants for electricity and providing thermostat controls resulting in heating & cooling costs being 10 to 20% below apartments without submetering.



Read the full case study on 360 State Street by visiting H2O Degree's website at www.h2odegree.com/aspela.php



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continued from page 6

Distribution Mains: Distribution pipelines located in streets, highways, public ways or private rights-of-ways, exclusive of Service Connections which are used to serve the Customer with water. **Distribution System:** The water mains and related facilities used for the purpose of delivering water to Customers, including any supply mains, pumping facilities, storage facilities or other facilities required for service. The Distribution System is primarily installed in dedicated streets.

District Net Area: All the land within an Acreage Supply Charge District except:

1. Land areas of open, uncovered flood control facilities.
2. The portion of freeway rights-of-way designed to accommodate vehicular traffic. Those portions usually landscaped are included in the District Net Area.
3. Land areas which are planned as open areas not subject to development, improvement, or any use requiring water service.
4. All operating property under the control of the Water System of the Department.
5. The land areas of parks, playgrounds, golf courses, and lakes without water service, provided that such areas are owned by the City and under the control of the Department of Recreation and Parks as of June 23, 1972. Land areas owned by the City and under control of the Department of Recreation and Parks acquired after June 23, 1972, will be subject to normal charges for Acreage Supply Charge Districts.

Gravity System: That portion of the water Distribution System which normally receives water by gravity flow from the Los Angeles Aqueduct System, facilities of the Metropolitan Water District or the local ground water system, without the installation of special storage facilities, supply mains, or pumping facilities; the Gravity System may include pumps utilized for delivery of water from wells into the Gravity System and Distribution Line booster pumps used to improve operating conditions.

Gross Area of Applicant's Property: The contiguous land area owned or controlled by an Applicant; including streets, and one-half the land area of the abutting streets to which legal, recorded access exists at the time of application for water service. Land areas within Applicant's Gross Area which will not require water service may be excluded in accordance with the Department's determination of the District Net Area. Open space to comply with subdivision requirements or zoning regulations will not normally be excluded from Applicant's gross area.

Irrigation Service: Water service furnished for use solely for irrigation of parcels of land of not less than five (5) acres used exclusively for the commercial production of agricultural, horticultural, or floriculture products in conformance with recognized practices of husbandry.

Such irrigation shall be limited to production for the following purposes:

1. Human consumption or for the market;
2. Feeding of animals for human consumption or for the market; or
3. Feeding of animals for the purpose of obtaining their products for human consumption or for the market.

Main Extension: The extension of water Distribution Mains beyond previously existing facilities.

Open Space: Land area within an Applicant's Gross Area that has potential for development and is so designated to comply with subdivision requirements or zoning regulations.

Private Fire Protection Service: Water service to Premises solely for fire protection purposes.

Pumped System: Any portion of the water Distribution System which because of topography or elevation may not readily be served by a normal extension of the Gravity System and which requires the installation and operation of special pumping facilities to provide service.

A water Service Connection consists of the pipe or tubing, fittings, valves, and related facilities necessary to conduct water from the distribution main to the meter or to the shutoff valve on an unmetered Service Connection, where connection is made with facilities of the Customer.

Sewer Service Charge: A charge imposed by the City Council for the receiving, transportation, pumping, treatment, and disposal of sewage through the sewer system.

Water System: The organizational division of the Department responsible for providing water service to its Customers.

RULE NO. 2 – DESCRIPTION OF SERVICE

PART 2-W DESCRIPTION OF WATER SERVICE

A. Supply and Pressure

The Department will endeavor to render a dependable supply of potable water, from available sources, in quantities adequate to meet the reasonable needs of its Customers. The delivery of such supply will be at the Service Connection.

Generally, the Department will maintain operating pressures at the Service Connection of not less than 25 pounds per square inch. Pressures may be lower at times of Maximum Demand or because of unusual elevations or other special conditions.

- B. Impairment of Service to Other Customers** Where the use of water is unusually intermittent or is subject to violent fluctuations of a character that may impair service to other Customers, the Department may require that the Customer provide, at the Customer's own expense, suitable equipment to reasonably limit fluctuations in use and pressures caused by the Customer's equipment or operations.

C. Other Conditions to Service

Before water service will be provided by the Department, the Customer shall obtain any approval of Customer-installed or furnished facilities required by the Department of Building and Safety or the Fire Department of the City of Los Angeles or any other authority whose approval is required by law.

RULE NO. 3 – APPLICATION FOR SERVICE

A. GENERAL

1. Each prospective Customer, or agent of the Customer, shall apply for the service desired, establish credit as required by these Rules, and pay a Start Service Charge.

2. An application may be made in person at any business office of the Department or to a duly authorized representative by phone, mail, or the Internet.
3. In the event the Customer is a corporation, the Department considers the Customer to be the corporation as it exists at the time of the application for service. Any dissolution, merger, consolidation, or other reorganization of the corporation, or the sale or other transfer of the assets of the corporation in an amount greater than ten percent, or the sale or other transfer of stock ownership of the corporation, voluntary or involuntary or by operation of law, greater than ten percent shall be deemed a termination of service and a request for new service and therefore is subject to the provisions of those Rules concerning new service and termination of service, including the establishment and/or reestablishment of credit. Continuation of any deposits on file with the Department shall require the consent of the previous owner. Failing such consent, a new deposit will be required. The provisions of this Rule shall not apply to corporations, the stock of which is listed on and traded through a recognized exchange.

In the event the Customer is a partnership, the Department considers the Customer to be the partnership as it currently exists. A withdrawal or change, voluntary or involuntary or by operation of law of any partner or the dissolution of the partnership shall be deemed a termination of service and a request for new service and therefore is subject to the provisions of these Rules concerning new service and termination of service, including the establishment and/or reestablishment of credit.

In the event the Premises at which the Customer is receiving service is a leased Premises, any transfer of the lease, voluntary or involuntary or by operation of law, shall be deemed a termination of service and a request for new service and therefore is subject to the provisions of those Rules concerning new service and termination of service including the establishment and/or reestablishment of credit.

In the event the application is for master-metered residential service, unpaid bills are deemed to be the responsibility of the property owner in that this service constitutes a special benefit to such property. A public or private auction sale resulting from a foreclosure results in the purchaser being deemed the Department's Customer from the date of the auction purchase.

As a condition of service and continuation of service, any corporation, partnership, or Customer subject to the provisions of this Rule, or to which the provisions of this Rule become applicable, shall notify the Department in writing in advance of such event. Failure to notify the Department shall be grounds for immediate termination of service.

4. The application is a request for service. It does not, in itself, require the Department to serve the Customer nor does it require the Customer to take service if the application is accepted, for a period longer than the minimum period required under the rate ordinance. The Department's refusal to serve shall be based upon these Rules, and service at any time shall be rendered only under reasonable conditions and in accordance with these Rules.
5. Acceptance of applications for service to Customers located outside of the City but within the Los Angeles Metropolitan Area is at the Department's option and may be subject to approval by the Board. Only surplus water or electricity, owned or controlled by the City and not required for use of Customers served by the City within its limits, may be supplied or distributed outside the City.

B. Information to Be Furnished by Applicant

1. Name of prospective Customer and agent, if applicable.
2. Date of application.
3. Location of Premises to be served.
4. Date service is desired.
5. Whether the Premises have been heretofore supplied with water or electricity by the Department.

6. Purpose for which service is to be used.
7. Type of service desired - water and/or electric.
8. Prospective Customer's mailing address and if residential, the place of employment, and if business, the residential address of the prospective Customer. Prospective Customer's mailing address shall be the address for receipt of notices unless the Customer specifies, in writing, another address for notices.
9. Whether the prospective Customer is the owner or tenant of the Premises to be served.
10. For master-metered residential service - name, address, and telephone number of property owner, if other than the Customer of record.
11. Rate schedule requested if optional rates are available.
12. Information required to evaluate the credit of the prospective Customer.
13. Such other information as the Department may reasonably require.
14. Signature of prospective Customer or agent may be required.

C. Individual Liability for Joint Service

Two or more parties who join in one application for water and/or electric service shall be both individually and jointly liable thereunder and only one bill shall be periodically rendered for service supplied in accordance therewith.

D. Start Service Charge

A Start Service Charge per Premises shall be established from time to time by the General Manager and shall be collected from each Applicant for starting water and/or electric service to the Premises.

If the application is for a change of name on an established account which does not require a closing bill, there shall be no charge.

A Customer who converts master-Metered Services to individually metered Electric Services may have the Start Service Charge waived, at the initial conversion only, when services are retained in the Customer's name.

E. Maintenance of Electric Service Application

A Customer may place a Landlord Agreement on file for the purpose of maintaining continuous electric service in rental units when tenants move out, if the following requirements are met:

1. The Customer must be the Customer of record for the common water service or services.
2. There must be at least one individually metered electric service.
3. The services must be at the same or contiguous addresses within a complex of rental units.
4. The common water service or services and all electric services covered by the Landlord Agreement must be in the same bimonthly or corresponding monthly billing cycles.
5. Failure to comply with any of the above requirements will result in cancellation of the Landlord Agreement.

F. Type of Water Service Requirements

The Department's requirements for the type of water service desired must be met before an application will be approved. If the water main, Service Connection, or meter required for service to the Premises has not been installed and/or paid for, the Applicant will be informed of the terms and conditions which must be met before an application for service will be approved.

G. Failure to Pay Charges Owed as Former Customer

When an application for service is made by a former Customer who has failed to pay charges owed to the Department, service may be refused until such charges are paid and Customer establishes credit as required in Rule No. 6.

H. Use of Water or Electricity Without Application for Service

Any person, persons, association, corporation, or entity using water or electricity without making proper application for such service shall be responsible for all charges for the service. The amount of such charges shall be determined by the Department either by meter reading or on the basis of the estimated consumption

for the time the service was used. Liability for charges due is in addition to any other civil or criminal penalty authorized by law.

When the Department finds that water or electricity is being used without proper application for service or Service Connection, the service may be discontinued without notice. If such use of water or electricity is unsafe or hazardous, the service may be discontinued in the manner prescribed in Rule No. 11 titled "DISCONTINUANCE AND RESTORATION OF SERVICE."

RULE NO. 4 – CONTRACTS

A. Special contracts may be required as a condition precedent to service:

1. When required by provisions of a Rule or rate schedule;
2. When required in connection with extension or installation of facilities pursuant to Rule No. 15 titled "DISTRIBUTION SYSTEM EXTENSIONS," Rule No. 16 titled "SERVICE CONNECTIONS AND CUSTOMER'S FACILITIES," or in connection with Rule No. 13 titled "TEMPORARY SERVICE"; or
3. When the Department, in its discretion, requires such a contract because of special circumstances of service.

B. When a service is requested to supply a Premises situated at such an elevation that it cannot be assured of a water supply at adequate pressure from the Distribution System, the water service shall not be furnished until the property owners of record execute an agreement to accept such water service as the Department is able to furnish from its existing Distribution System and provide any additional facilities required by an applicable law or plumbing code. To serve public notice of the conditions of supply, the Department shall record the agreement in the Office of the County Recorder of the County in which the Premises is located.

STAND-BY, CONTINUATION OF THE NEXT RULES TO BE CONTINUED IN NEXT MONTH'S REPORT.



ASPELA TIMES



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