

BEFORE THE PUBLIC SERVICE COMMISSION
STATE OF MISSOURI

ORIGINAL

| | | |
|---------------------------|---|--------------------------|
| IN THE MATTER OF |) | |
| MISSOURI-AMERICAN WATER |) | Case No. WR-2010-0131 |
| COMPANY'S REQUEST FOR |) | Consolidated |
| AUTHORITY TO IMPLEMENT A |) | |
| GENERAL RATE INCREASE FOR |) | |
| WATER SERVICE PROVIDED IN |) | April 30, 2010 |
| MISSOURI SERVICE AREA |) | Jefferson City, Missouri |

SURREBUTTAL TESTIMONY OF
 JASON WEBB (VIA TELEPHONE)
 ON BEHALF OF
 ST. LOUIS AREA FIRE SPRINKLER ASSOCIATION

a witness, produced, sworn, and examined on the 30th day of April 2009, between the hours of 8:00 a.m. and 6:00 p.m. of that day at 2117 Green Meadow Drive, in the City of Jefferson, County of Cole, before

PHYLLIS REA, CCR
 CAPITAL CITY COURT REPORTING
 Jefferson City ** The Lake ** Columbia
 573-761-4350 ** 573-365-5226 ** 573-445-4142

within and for the State of Missouri, in the above-entitled cause, on the part of the St. Louis Fire Area Sprinkler Association, taken pursuant to notice.

| | |
|------------------|-----------|
| Δ π EXHIBIT FSAB | |
| Deponent | J. Webb |
| Date | 4-30 P.R. |
| WWW.DEPOBOOK.COM | |

1 A P P E A R A N C E S

2

3 FOR THE ST. LOUIS AREA FIRE SPRINKLER ASSOCIATION:

4

5 TERRY C. ALLEN

6 Attorney at Law

7 ALLEN LAW OFFICES

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Jefferson City, Missouri 65101

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10 E-mail: terry@tcallenlawoffices.com

11 SIGNATURE INSTRUCTIONS:

12 Signature Waived.

13 EXHIBIT INSTRUCTIONS:

14 FSA Deposition Exhibit Nos. 8 through 10, inclusive, are attached
to the transcript.

15

I N D E X

16

Surrebuttal Examination by Mr. Allen 3

17

E X H I B I T S

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FSA Deposition Exhibit No. 8

19

Testimony transcript 3

20

FSA Deposition Exhibit No. 9

21

Agreement 3

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23

Fsa Deposition Exhibit No. 10

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Tariff 3

25

1 (FSA DEPOSITION EXHIBIT NOS. 8 THROUGH 10, INCLUSIVE,
2 WERE MARKED FOR IDENTIFICATION BY THE COURT REPORTER.)

3 JASON WEBB, having first been duly sworn, testified as
4 follows:

5 SURREBUTTAL EXAMINATION BY MR. ALLEN:

6 Q. Would you state your name for the record, please?

7 A. Jason Webb, W-e-b-b.

8 Q. And, Mr. Webb, what is your position?

9 A. I am the fire marshal for the City of Belton, Missouri
10 Fire Department. I am also the president of the Fire Marshal's
11 Association of Missouri.

12 Q. And you have previously testified, have you not --
13 provided direct testimony in this same case involving a request by
14 Missouri American Water for rate increases, right?

15 A. Yes.

16 Q. And you previously provided your resume which we marked
17 as an exhibit and made it part of your direct testimony; is that
18 correct?

19 A. Yes.

20 Q. Okay. Have you reviewed the rebuttal testimony of the
21 company -- I think there was a Mr. Weeks (phonetic spelling) and
22 Mr. Dunn, and there was rebuttal testimony in this case from the
23 staff of Mr. Merciel, M-e-r-c-i-e-l?

24 A. Yes, I have.

25 Q. Okay. With regard to the fire sprinkler systems in

1 residential settings or in residence, please again describe the
2 preferred method of 13D under the National Fire Protection
3 Association's standards, which are referred to as NFPA as approved
4 by the American Water Association?

5 A. NFPA 13D has three -- what they call, acceptable or
6 preferred arrangements for water supply to residential fire
7 suppression systems. Two of them do not meter the residential
8 fire suppression line and one does.

9 Q. Okay. What is the preferred method?

10 A. The preferred method is a -- is a single tap with the
11 fire suppression line with the -- I am sorry, the domestic line
12 coming off of the fire suppression -- or of the single tap. And
13 then the domestic side being metered and the residential fire
14 suppression side not.

15 Q. So if I describe it as being a single line that then,
16 when it comes in the home, it splits with only one meter on that
17 line; is that an accurate description?

18 A. That is correct.

19 Q. Okay. Now, you have -- I've asked you to study this a
20 bit in other states and what's just kind of going on generally.
21 Are there meters in service in other states that are being used to
22 satisfy the preferred method -- the single line that splits one
23 meter?

24 A. There are according to the information that I received.

25 Q. Can you give us some examples of what you have found

1 out through your study and research on the subject?

2 A. I contacted a colleague of mine in the State of
3 California who is a retired fire marshal who has had quite a bit
4 of dealings with residential fire suppression systems. And he
5 forwarded some information to me that appears to be very closely
6 tied to our discussion. It's the same mother company -- that
7 being the American Water Company.

8 Q. I think -- is not called in California,
9 California-American Water Company?

10 A. It is. And it's the -- the information he submitted --
11 or sent to me was, like, a worksheet they used to do some
12 calculations, a copy of a meter spec sheet -- a water meter spec
13 sheet and an agreement between the Monterey County Fire Prevention
14 Officers Association and the vice president and manager of the
15 Monterey Division of the California-American Water Company.

16 Q. Then I am going to hand you what has been marked FSA9,
17 which purports to be a fire -- a Monterey County Fire Prevention
18 Officers Association document with three pages. Is that what you
19 are referring to?

20 A. It is.

21 Q. Okay. Would you go over and tell us what this exhibit
22 is -- what are each of these pages?

23 A. The first page is the one that has the letterhead,
24 Monterey County Fire Prevention Officers Association on it. It's
25 an agreement whereby the Fire Prevention Officers Association and

1 the California American Water Company agreed on the -- on a method
2 of calculating the meter size for residential homes with a fire
3 suppression system.

4 It -- it's actually pretty simple. The agreement is
5 that there will be a calculation by the water company to determine
6 the domestic water requirements -- water flow requirements. And a
7 calculation determined by the sprinkler designer to determine the
8 fire flow requirements and simply the meter will be sized based
9 off the larger of the two needs.

10 Q. Okay. What is the second page?

11 A. The second page was a worksheet that has California
12 American Water Company's service design on it.

13 Q. Does it have a mark up at the top or is it marked
14 Exhibit B for whatever reason it is?

15 A. It is marked Exhibit B.

16 Q. Okay. What does that tell us?

17 A. It is a simple worksheet that can be used to calculate
18 the flow for the various -- it mentions things like dishwasher,
19 sinks and so on as well as sprinkler heads.

20 Q. And what is the third page?

21 A. The third page is a spec sheet from a company that says
22 Schlumberger at the bottom. It's a water meter specification
23 sheet.

24 Q. And what -- I see in the center, a picture of a meter
25 that says Neptune?

1 A. Yes. It says if you look at the -- on the top right of
2 the sheet, it says Neptune T-10 meter is what it is referring to.

3 Q. What does this -- these documents tell us?

4 A. It calculates -- or it provides a user with the -- or a
5 designer with the flow rates that this meter is designed to
6 accommodate.

7 Q. And this -- is this directly in reference to the use of
8 fire sprinkler systems under the preferred method?

9 A. Yes. The 13D doesn't require a different meter. It
10 allows the use of the residential meter along with the specs, you
11 know, to tell you that the flow can be accommodated. And that's
12 what this -- and that's how you would determine that it would be
13 looking at a spec sheet such as this.

14 Q. And what is the significance of all of this in this
15 case from your perspective?

16 A. At a meeting we had with Missouri American --

17 Q. Let's not talk about the meeting. That's confidential.

18 A. Okay. We learned that this was a typical meter that
19 was used -- that's used in a lot of areas in the country and very
20 commonly used on a residential fire suppression system service
21 line.

22 Q. And it works?

23 A. To the best of our knowledge, we have not been able to
24 find any circumstances where it hasn't.

25 Q. Okay. Have you inquired as to any losses in California

1 or any other jurisdiction from the shutoff of a fire sprinkler
2 system under the preferred method where you are using one meter
3 and loss to the public or fires or damage because of that shutoff?

4 A. Due to the failure of the meter?

5 Q. Yes.

6 A. I have -- I have inquiries into the State of California
7 again where this -- where this document came from. Everybody I
8 have spoken with -- thus far, anecdotically, has indicated they're
9 not aware of any of those losses but they are doing some research
10 to make sure that if there are any that we can identify them.

11 However, just due to the time frame and workload, I
12 have not gotten that data back yet. But again, anecdotically, the
13 two folks I have spoken with have said they are not aware of any
14 occasion where it's happened.

15 Q. And as soon as you get that information back, will you
16 provide it to me so I can provide it to the company and to the
17 staff and to any other interested parties in this case?

18 A. Yes, I will.

19 Q. Okay. Now, it has been expressed in rebuttal, there's
20 been expressed a concern with the liability of a water purveyor --
21 or company, if it shuts off the domestic water and the fire
22 sprinkler system for nonpayment at any residence when the
23 preferred method is used under 13D -- again, the one line that
24 splits and the one meter, are you familiar with that concern?

25 A. Yes.

1 Q. How could such issues be resolved from your perspective
2 as a fire marshal for the City of Belton and for fire marshal --
3 the president of the State Fire Marshal's Association?

4 A. It would appear to us that of a simple hold harmless
5 agreement where -- when the customer signs up or agrees to
6 purchase water from the water company that they acknowledge that
7 they understand nonpayment will constitute a disconnection, and
8 they are not entitled to the benefits of that water any longer if
9 they are not paying for it.

10 Q. Have you seen such issue also addressed in tariffs in
11 California?

12 A. I have.

13 Q. Okay. And then I am going to hand you what's been
14 marked FSA10 which purports to be a tariff of California-American
15 Water. Do you have that in front of you (indicating)?

16 A. I do.

17 Q. Will you identify it yourself for the commission,
18 please?

19 A. The page that I have in front of me has
20 California-American Water Company, 303 H Street, Suite 250,
21 Chula Vista, California on the top left-hand side. And it's dated
22 January 7th, 2009, is the effective date on the bottom -- on the
23 bottom right, I am sorry.

24 Q. Okay. What is -- as you understand this tariff, what
25 does it do?

1 A. It basically discusses residential meters and -- or
2 residential fire suppression systems as part of the regular
3 domestic service.

4 Q. Okay. Can you just in your mind discuss for us if you
5 consider this an appropriate condition?

6 A. Yes. It -- it simply -- the bottom line of the top
7 paragraph just says that the residential fire suppression system
8 is not considered a fire service by the company but is considered
9 an oversized general metered service and only the rules and
10 conditions of service for general meter service apply.

11 What that means to me is that this is just another part
12 of the domestic service. It's not to be considered separate. And
13 there's no need the way -- in my estimation in the way -- the way
14 I read it, that there was no need for a separate set of rules
15 regarding residential fire suppression.

16 Q. Okay. Is there any need under this tariff in
17 California to have two lines, two meters and additional cost on
18 the customer?

19 A. No. As a matter of fact, it's -- as part of the
20 agreement and it's also mentioned in their tariff, it's quite the
21 opposite. If the residential fire suppression system requires the
22 use of a larger meter, by -- according to this agreement and the
23 tariff both, the customer is charged at a reduced rate.

24 Q. Okay. Would that encourage the use of a sprinkler
25 system in your judgment?

1 A. Absolutely. On the flip side of that, you know,
2 without something like this, you are essentially punishing a
3 customer who is trying to be conservation-minded because --
4 because we have studies that show time and time again that
5 residential fire suppression systems use dramatically less water
6 in the event of the fire emergency than the alternative.

7 Q. And you testified to that in your direct testimony, as
8 I recall?

9 A. Yes.

10 Q. Okay. Do you have some concern over the language in
11 the proposed tariff in this case giving the company's sole
12 discretion over the method as to whether it's one line, two lines,
13 one meter, two lines, two meters?

14 A. Yes.

15 Q. What does that concern?

16 A. Typically, whether it be a fire suppression system or
17 any other system that's under the purview of the fire marshal,
18 it's typical that the design professional makes those calls. In
19 other words, the design professional -- typically, a professional
20 engineer or a NICET at Level III technician determines what is the
21 best route --

22 MR. ALLEN: Hold it. Hold it.

23 THE COURT REPORTER: What did you say before
24 professional?

25 BY MR. ALLEN:

1 Q. Would you repeat yourself so she can get this down,
2 please?

3 A. Typically, a design professional -- whether that be a
4 professional engineer or a NICET, N-i-c-e-t, designer, those are
5 two qualifications that we use to determine the person conducting
6 the design is qualified to do so.

7 Typically, those designers will determine the best --
8 the best means to provide service to these systems. That having a
9 third party -- and they do so -- excuse me, they do so by using
10 national recognized standards such as the FPA 13D.

11 When we have a third party or third person that gets
12 involved and that has standards or regulations that are not
13 consistent with those standards, that becomes problematic.

14 Q. So in your judgment should the company have the sole
15 discretion over the method?

16 A. No. As the authority having jurisdiction on -- you
17 know, for approval of these systems that we would -- we prefer to
18 rely on the design professionals' professional opinion in
19 accordance with the nationally recognized standards.

20 Q. Now, it has been discussed and mentioned previously
21 that the City of St. Joseph and Joplin, Missouri -- both made by
22 ordinance, require two lines and hence, two meters. Are you
23 familiar with that -- that discussion?

24 A. I am.

25 Q. Did you inquire of these communities and their

1 officials and fire marshals as to whether they require two lines,
2 two meters?

3 A. I did.

4 Q. What did you -- what did you find out?

5 A. I have spoken with both the fire prevention bureaus in
6 both of those cities as well as the plumbing inspector in
7 St. Joseph. And none of those folks are aware of any such
8 requirement. And the City of St. Joseph indicated that they have
9 existing systems in their community with single taps, single meter
10 setups currently.

11 Q. So St. Joseph, if I understand what you said, already
12 has in its community, the preferred method of one line split and
13 one meter.

14 A. That was the information I was given, yes.

15 Q. Okay. Now, Mr. Webb, what about Joplin, does Joplin
16 have any requirement as far as you have been able to determine,
17 for two lines, two meters?

18 A. No. There -- the deputy fire chief -- who was the
19 former fire marshal in Joplin, indicated that there is no such
20 requirement and then further contacted me again a few days later
21 and said stated he had checked with other folks in his city
22 government and they confirmed there is no such requirement.

23 Q. Now, Mr. Webb, will you tell the commission about any
24 pending legislative concerns that drives your interest in this
25 case?

1 A. During the last legislative year 2009, there was a bill
2 filed to prohibit the adoption or the mandating of residential
3 fire sprinklers. Subject to that legislation being filed, there
4 was an agreement between the Fire Service Alliance, which is the
5 lobby group that represents the Missouri Fire Service in Jefferson
6 City and the Home Builders Association, which requires a -- what
7 we call a mandatory option meaning that in lieu of a mandate
8 currently in Missouri, homebuilders are mandated to offer the
9 option of residential sprinklers.

10 However, that mandatory option period expires
11 December 31st, 2011. At such time, both parties have agreed not
12 to seek an extension of that sunset and therefore it can be
13 assumed that because all of the nationally recognized residential
14 building codes now require residential fire suppression systems to
15 be installed in one- and two-family dwellings that many
16 communities will begin mandating after that date.

17 Q. Do you have any other thoughts relative to this matter
18 that we have not covered in this surrebuttal?

19 A. I have -- I do have one after reviewing some of the
20 testimony. At numerous times in some of the testimony, it refers
21 to this being an issue in its infancy. And I would like to state,
22 you know, that we are seeing things that even from their own
23 company. For example, the Monterey County agreement was dated
24 in 1999, you know, 11 years ago -- almost 11 years ago now.

25 It doesn't appear, you know, to us that this is an

1 issue in its infancy. This is something that the fire service has
2 been dealing with for quite some time. And according to the
3 documentation we've received, their own water -- mother company
4 had known about it for quite some time.

5 That's why, you know, with that, combined with the
6 looming sunset on the mandatory option makes the time of the
7 essence here.

8 THE COURT REPORTER: What was the last thing you said?

9 MR. ALLEN: Time of the essence.

10 BY MR. ALLEN:

11 Q. Do you have any other comments, thoughts?

12 A Not at this time.

13 Q. Now, Mr. Webb, as you understand, we are going to mark
14 your testimony as FSA Exhibit 8, okay?

15 A. Okay.

16 Q. And I want to ask you: Is your testimony given today
17 under oath -- and if inquiries were made to the facts and the
18 views that you have expressed, would you respond to this same
19 matter at any time in the future as you have today?

20 A. Yes.

21 Q. Is your testimony today true to the best of your
22 knowledge and belief and information?

23 A. Yes.

24 Q. Do you agree to waive any signature to the sworn
25 testimony that you have given today so that we can submit this as

1 surrebuttal in behalf of the intervener, St. Louis Area Fire
2 Sprinkler Association?

3 **A. Yes.**

4 MR. ALLEN: Thank you, Mr. Webb. That's it.

5 (SIGNATURE WAIVED.)
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C E R T I F I C A T E

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STATE OF MISSOURI }
 } ss.
COUNTY OF JEFFERSON }

I, Phyllis Rea, Certified Court Reporter, No. 1233, Capital City Court Reporting, 210 East High Street, Suite 110, Jefferson City, Missouri 65101, do hereby certify that pursuant to notice, there appeared before me,

JASON WEBB (VIA TELEPHONE),

at 2117 Green Meadow Drive, in the City of Jefferson, County of Cole, State of Missouri, on the 30th day of April 2010, who was first duly sworn to testify to the whole truth of his knowledge concerning the matter in controversy aforesaid; that he was examined and his examination was then and there recorded in Stenomask by me and afterwards typed under my supervision, and is fully and correctly set forth in the foregoing pages; and that the witness and all counsel waived the presentment of this deposition to this witness, by me, and that the signature may be acknowledged by another notary public, and the deposition is now herewith returned.

I further certify that I am neither attorney or counsel for, nor related to, or employed by any of the parties to this action in which this deposition is taken; and further, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, or financially interested in this action.

Given at my office in the City of Jefferson, State of Missouri, this 3rd day of May 2010.

Phyllis Rea

PHYLLIS REA, CCR
CAPITAL CITY COURT REPORTING

Amite

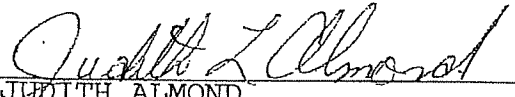
MONTEREY COUNTY

FIRE PREVENTION OFFICERS ASSOCIATION


CALCULATION OF WATER METER SIZE
(SINGLE FAMILY DWELLING WITH 13-D SPRINKLER SYSTEM)

It is agreed by the fire authorities in Monterey County and California American Water Company that the following method will be used in calculating the size of water meter needed for new construction or remodel of single family dwellings with automatic fire sprinkler systems conforming to NFPA 13-D standards.

1. California American Water Company will calculate the size of water meter needed based on their AWWA methods using all domestic fixtures.
2. The fire sprinkler contractor will calculate the required water demand based on design factors of the sprinkler system. This figure will be provided to the fire authority with the plans and specifications for the sprinkler system.
3. The fire authority will forward the fire sprinkler water demand to the California American Water Company on a form designated for that purpose.
4. The size of the meter will be based on the greater of the two demands - domestic or sprinkler.
5. If the meter size is based on the sprinkler flow and has to be larger because of the sprinkler system, California American Water Company will continue to price the ongoing meter charge at one size smaller than actual.



 JUDITH ALMOND
 Vice President and Manager
 Monterey Division
 California American Water Co.



 ART BLACK
 Secretary/Treasurer
 Monterey County Fire Prevention
 Officers Association

Date: 7/23/99

Date: 7/23/99

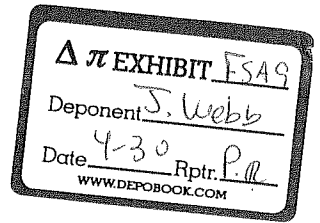




EXHIBIT B

California American Water Company Service Design

Customer Name: _____ **Date:** _____

Service Address: _____ **Service #:** _____

Location: _____ **A/C #:** _____

| FIXTURES | UNITS (RESIDENTIAL) | UNITS (PUBLIC USE) | NUMBER OF FIXTURES | TOTAL | NOTES |
|----------------------------|---------------------|--------------------|--------------------|-------|-------|
| Kitchen Sink | 2 | 4 | | | |
| Dishwasher | 2 | 4 | | | |
| Garbage Disposal | 2 | | | | |
| Washing Machine | 3 | 4 | | | |
| Laundry Tray | 2 | 4 | | | |
| Bathroom Group Flush Tank | 6 | | | | |
| Bathroom Group Flush Valve | 8 | | | | |
| Water Closet (Low Flow) | 1.7 | | | | |
| Water Closet Flush Tank | 3 | 5 | | | |
| Water Closet Flush Valve | 6 | 10 | | | |
| Shower | 2 | 4 | | | |
| Bathtubs | 2 | 4 | | | |
| Lavatories | 1 | 2 | | | |
| Stall Urinals | | 5 | | | |
| Wall Urinals | | 5 | | | |
| Service Sink | 3 | | | | |
| Bar Sink | 1 | 2 | | | |
| Drinking Fountain | 1 | 2 | | | |
| Sprinkler Heads | 2 | | | | |
| Hose Bibs | 3 | 5 | | | |

| Total Fixtures | Service Size | Meter Size | Gallons Per Minute |
|----------------|--------------|------------|--------------------|
| Total Flow | 1" | 5/8" | 0-20 |
| Service Size | 1" | 1" | 20-50 |
| Meter Size | 2" | 1½" | 50-100 |
| Pressure | 2" | 2" | 100-160 |

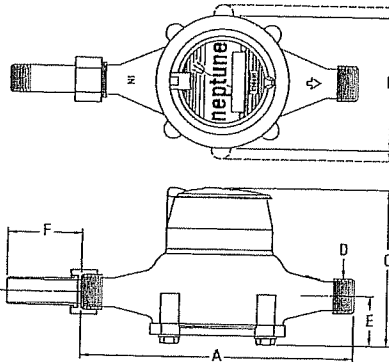
Checked By: _____ **Date:** _____

Operating Characteristics

| Meter Size | Normal Operating Range (C 100% Accuracy (±1.5%)) | AWWA Standard | Low Flow (C 95% Accuracy) |
|------------|---|--|--------------------------------------|
| 5/8" | 1/2 to 20 US gpm 0.11 to 4.55 m ³ /h | 1 to 20 US gpm 0.23 to 4.5 m ³ /h | 1/8 US gpm 0.03 m ³ /h |
| 3/4" | 3/4 to 30 US gpm 0.17 to 6.82 m ³ /h | 2 to 30 US gpm 0.45 to 6.8 m ³ /h | 1/4 US gpm 0.06 m ³ /h |
| 1" | 1 to 50 US gpm 0.23 to 11.36 m ³ /h | 3 to 50 US gpm 0.68 to 11.4 m ³ /h | 3/8 US gpm 0.09 m ³ /h |

Registration

| Registration per wheel revolution | | |
|--------------------------------------|---|---|
| 10 - US Gallons | ✓ | ✓ |
| 10 - Imperial Gallons | ✓ | ✓ |
| 1 - Cubic Foot | ✓ | ✓ |
| 0.1 - Cubic Metre | ✓ | ✓ |
| 0.01 - Cubic Metre | ✓ | ✓ |
| Register Capacity (6-wheel odometer) | | |
| 10,000,000 - US Gallons | ✓ | ✓ |
| 10,000,000 - Imperial Gallons | ✓ | ✓ |
| 1,000,000 - Cubic Feet | ✓ | ✓ |
| 100,000 - Cubic Metres | ✓ | ✓ |
| 10,000 - Cubic Metres | ✓ | ✓ |



Dimensions

| Meter Size | A in/mm | B in/mm | C-Std in/mm | C-ARB in/mm | C-Pul in/mm | D-Threads per inch | D-DD in/mm | E in/mm | F in/mm | Weight lbs/kg |
|------------|---------------|--------------|----------------|----------------|----------------|-----------------------|---------------|-------------|---------------|------------------|
| 5/8" | 7 1/2 191 | 3 5/8 92 | 4 7/8 124 | 5 3/8 137 | 6 3/4 171 | 14 | 1.030 26 | 1 5/8 41 | 2 1/2 64 | 3 3/4 1.7 |
| 5/8 x 3/4" | 7 1/2 191 | 3 5/8 92 | 4 7/8 124 | 5 3/8 137 | 6 3/4 171 | 11 1/2 | 1.290 33 | 1 5/8 41 | 2 5/8 67 | 4 1.8 |
| 3/4" | 9 229 | 4 3/8 111 | 5 1/2 140 | 5 13/16 148 | 7 3/8 187 | 11 1/2 | 1.290 33 | 1 7/8 48 | 2 5/8 67 | 6 2.7 |
| 3/4" SL | 7 1/2 91.1 | 4 3/8 111 | 5 1/2 140 | 5 13/16 148 | 7 3/8 187 | 11 1/2 | 1.290 33 | 1 7/8 48 | 2 5/8 67 | 5 1/2 2.5 |
| 3/4" x 1" | 9 229 | 4 3/8 111 | 5 1/2 140 | 5 13/16 148 | 7 3/8 187 | 11 1/2 | 1.626 41 | 1 7/8 48 | 2 3/4 70 | 6 1/2 2.9 |
| 1" | 10 3/4 273 | 6 1/2 165 | 6 3/8 162 | 6 3/8 168 | 8 3/16 208 | 11 1/2 | 1.626 41 | 2 1/8 54 | 2 3/4 70 | 9 3/4 4.4 |
| 1 x 1 1/4" | 10 3/4 273 | 6 1/2 165 | 6 3/8 162 | 6 5/8 168 | 8 3/16 208 | 11 1/2 | 1.865 47 | 2 1/8 54 | 2 13/16 71 | 10 1/4 4.6 |

Guaranteed Systems Compatibility

All Neptune T-10 meters are guaranteed adaptable to our Pulsar-RM, ARB®, ProRead AutoDetect, TRICON®-S, TRICON-E3, and MAPS® Mobile systems without removing the meter from service.

Specifications

- Certification: NSF 61
- Application: cold water measurement of flow in one direction
- Maximum operating pressure: 150 psi (1034 kPa)
- Maximum operating temperature: 80°F
- Measuring chamber: nutating disc technology design made from proprietary synthetic polymer

Options

- Sizes:
 - 5/8", 5/8" x 3/4"
 - 3/4", 3/4" SL, 3/4" x 1"
 - 1", 1" x 1 1/4"
- Units of measure: U.S. gallons, imperial gallons, cubic feet, cubic meters
- Register types:
 - Direct reading: EnviroBrass II box and cover (standard)
 - Remote reading: ProRead AutoDetect ARB Absolute Encoder, Pulsar-RM, TRICON-S, TRICON-E3
 - Reclaim
- Bottom caps:
 - Synthetic polymer (5/8" only)
 - Cast iron
 - EnviroBrass II, ductile iron
- Connections: EnviroBrass II, straight or bent

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Schlumberger

Schedule No. LW-1

Larkfield Tariff Area

GENERAL METERED SERVICE (continued)

SPECIAL CONDITIONS (Continued)

2. Any residential Customer who has installed a Residential Fire Sprinkler System (RFSS) as part of their regular domestic service at their place of residence will be eligible to request to have their monthly service adjusted to reflect the increased service size necessary for operation of the RFSS. To be eligible for the monthly service charge reduction, the customer must request the adjustment and the Company must then verify that the lower size of meter would be large enough to provide adequate service to the residence. If eligible, customers who have a 1" or 3/4" meter in lieu of a 5/8" meter, will be billed a monthly service charge equal to that of the 5/8" meter. If eligible, any other residential customer with an RFSS and a meter size greater than 1" will have their monthly service charge reduced by one meter size. The RFSS is not considered a fire service by the Company, but is considered an oversized general metered service and therefore, only the rules and conditions of service for general metered service apply.
3. Per the final decision of A. 07-01-037, a surcharge of \$0.0720 per ccf will be applied to each bill to fund conservation efforts. The surcharge will be applied beginning the effective date of the final decision and will remain in effect until otherwise directed by the Commission.
4. A surcharge is included in each bill to collect the difference in revenues between the Interim rates approved in AL 684 and final authorized rates in D. 08-05-018. The monthly meter surcharge will be added to all meter sizes for all customer classes for the remaining 4 months of 2008 or for 4 months beginning the effective date of Advice Letter 699. The monthly meter surcharges are as follows:

| Meter Size | Monthly Surcharge |
|------------|-------------------|
| 5/8 x 3/4 | \$19.94 |
| 3/4 | \$29.91 |
| 1 | \$49.85 |
| 1 1/2 | \$99.70 |
| 2 | \$159.52 |
| 3 | \$299.10 |
| 4 | \$498.50 |
| 6 | \$997.00 |
| 8 | \$1,595.20 |
| 10 | \$2,293.10 |
| 12 | \$3,290.10 |

(TO BE INSERTED BY UTILITY)

ADVICE LETTER NO. 699

DECISION NO. 08-05-018

ISSUED BY

D. P. STEPHENSON

MGR - RATES & REGULATIONS

TITLE

(TO BE INSERTED BY C.P.U.C.)

DATE FILED

JUL 28 2008

EFFECTIVE RESOLUTION NO.

JAN - 7 2009

