From: Clanon, Paul

Sent: 4/18/2011 8:50:28 PM

To: Cherry, Brian K (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=BKC7)

Cc:

Bcc:

Subject: Re: New problem found with PG&E SMs!!

Ok. Peet's beverage of choice?

On Apr 18, 2011, at 8:48 PM, "Cherry, Brian K" < BKC7@pge.com > wrote:

I will take the bet.

From: Clanon, Paul [mailto:paul.clanon@cpuc.ca.gov]

Sent: Monday, April 18, 2011 08:46 PM

To: Cherry, Brian K

Subject: Re: New problem found with PG&E SMs!!

Earlier this evening I asked Aloke to check.

On Apr 18, 2011, at 8:45 PM, "Cherry, Brian K" <BKC7@pge.com> wrote:

I might take that bet.

From: Clanon, Paul [mailto:paul.clanon@cpuc.ca.gov]

Sent: Monday, April 18, 2011 08:33 PM

To: Cherry, Brian K

Subject: Re: New problem found with PG&E SMs!!

Wanna bet theirs are ok?

On Apr 18, 2011, at 7:36 PM, "Cherry, Brian K" < BKC7@pge.com > wrote:

I can only imagine. Perhaps there is small comfort in knowing Edison has meters there too?

From: Clanon, Paul [mailto:paul.clanon@cpuc.ca.gov]

Sent: Monday, April 18, 2011 07:35 PM

To: Cherry, Brian K

Subject: Re: New problem found with PG&E SMs!!

Want to hear my opinion on testing of equipment to be deployed in the Central Valley that fails

between 110 and 115 degrees?

On Apr 18, 2011, at 7:30 PM, "Cherry, Brian K" < <u>BKC7@pge.com</u>> wrote:

Perhaps but that is the absolute high estimate. I'm told it is closer to the low end. We will see....

From: Clanon, Paul [mailto:paul.clanon@cpuc.ca.gov] Sent: Monday, April 18, 2011 07:27

DM

To: Cherry, Brian K

Subject: Re: New problem found with

PG&E SMs!!

Aloke thinks it might be 500,000.

On Apr 18, 2011, at 7:04 PM, "Cherry, Brian K" <BKC7@pge.com> wrote:

Yes. Sadly. So far we think it is a problem with a very limited set since error messages are thrown off. We are replacing those 1500 meters and testing each one along with the manufacturer. We believe these are first generation meters and that the number is limited.

From: Clanon, Paul [mailto:paul.clanon@cpuc.ca.gov]
Sent: Monday, April
18, 2011 06:57 PM
To: Cherry, Brian K
Subject: Fwd: New problem found with PG&E SMs!!

You know any more about this?

Begin forwarded message:

```
From:
"Gupta,
Aloke"
<alone gupta@cpuc.ca.gov>
Date:
April
18,
2011
5:04:13
PM
PDT
To:
"Kaneshiro,
Bruce"
<br/>
<a href="mailto:bruce.kaneshiro@cpuc.ca.gov">bruce.kaneshiro@cpuc.ca.gov</a>>,
"Skala,
Pete"
<pete.skala@cpuc.ca.gov>,
"Sterkel,
Merideth
\verb|`'Molly|''''
<merideth.sterkel@cpuc.ca.gov>,
"Fitch,
Julie
A."
<julie.fitch@cpuc.ca.gov>,
"Clanon,
Paul"
<paul.clanon@cpuc.ca.gov>,
"Meeusen,
Karl"
< karl.meeusen@cpuc.ca.gov>,
"Brown,
Carol
A."
<arol.brown@cpuc.ca.gov>,
"Ryan,
Nancy"
```

```
<nancy.ryan@cpuc.ca.gov>,
"Sullivan,
Timothy
J."
< timothy.sullivan@cpuc.ca.gov>
Cc:
"Zafar,
Marzia"
<marzia.zafar@cpuc.ca.gov>,
"Villarreal,
Christopher"
<a href="mailto:christopher.villarreal@cpuc.ca.gov">christopher.villarreal@cpuc.ca.gov</a>
Subject:
New
problem
found
with
PG&E
SMs
!!
PG&E
has
just
alerted
me to
a new
problem
recently
discovered
with
their
smart
meters.
The
bad
news
is that
this is
the
worst
case
scenario
in
terms
of the
location
and
circumstances.
```

Problem:

Apparently,

а

particular

batch

of

SMs

show

а

sensitivity

to

temperature,

which

ultimately

can

lead

to

inaccurate

usage

readings.

The

faulty

reading

occurs

only

in a

narrow

band

of

temperature

(approx

100 to

115

estimated).

Below

and

above

this,

the

meter

functions

properly.

This

was

not

discovered

in

testing

because

the

ANSI

requirements

are at

temperature

points

outside this band. The meter does put out an error signal while this faulty condition is active, but the implication of that signal was not understood until now (essentially, it was ignored before).

Scope: The problem is with the L&G portion of the meter, not Silver Spring NIC. The affected batch is potentially upto 500K meters. Problem has been found

in 1500 SMs so far. The faulty readings could potentially lead to about 2% error in the monthly bill (the actual impact during the faulty condition could be 8% or more). Because PG&E has a record of the error signal, it may be possible to retroactively reconstruct the correct bill. Why

why
is this
WorstCase
Scenario:
The
affected
meters
are all
in

far)! They are also Residential!! And the error leads to a HIGHER bill (albeit, around 2% higher is currently estimated)!!! What's Next: Much is still not known. I have asked PG&E to provide an update asap next week as more engineering and billing analysis is completed and corrective actions

become clearer.

Center Valley (at least, so Aloke Gupta

California

Public

Utilities

Commission

O:

415.703.5239

aloke.gupta@cpuc.ca.gov