

Exhibit No. ___ (KSC-14)
Docket No. PG-041624
Witness: Kuang-Shi Chu

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

DOCKET NO. PG-041624

**EXHIBIT TO
TESTIMONY OF**

Kuang-Shi Chu

**STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

PSE's Response to Staff Data Request No. 71

July 21, 2005

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Docket No. PG-041624

**Complaint Regarding Natural Gas Incident and House Fire
September 2, 2004; Bellevue, WA**

WUTC STAFF INFORMAL DATA REQUEST NO. 71

WUTC STAFF INFORMAL DATA REQUEST NO. 71:

In reference to your response to the Staff Data Request number 51a, please provide the following information:

- (a) All other pipe-to-soil potential readings showing a zero reading in the area covered by the Vasa Park Rectifier.
- (b) The Exposed Pipe Condition Report for August 30, 2004.
- (c) The field report by the corrosion technician/technologist who discovered the zero reading, including the supporting documentation.
- (d) After discovery of the deficiency of the zero reading, please describe the follow-up action taken by Puget Sound Energy (PSE) as a result of that discovery (e.g., the company work order that was generated) including all supporting documents.

Response:

- (a) Attached find an Exposed Pipe Condition Report prepared on 9/1/04 (the date is incorrectly written as 2001) at 3844 170th Ave SE. Also attached is the associated Gas Service Order that the field employee was working on when the read was taken.
- (b) Attached find an Exposed Pipe Condition Report prepared on 8/30/04 at 2932 162nd Ave. SE. Also attached is the associated Gas Service Order that the field employee was working on when the read was taken.
- (c) The zero read was discovered by Brian Hunt, who is an employee of Pilchuck Contractors. His field report is provided in answer to DR 71(b) above.
- (d) August 30th. An Exposed Pipe Condition Report was completed for 2932 162 Avenue SE. Brian Hunt, Pilchuck employee, took the reading. He recorded a PSP reading of "negative" 0.0. He took the reading on the 2-inch main while doing a leak repair. Robert Henderson, PSE employee, also took a reading at the same location and verified the read. The EPCR was then submitted for follow up.

September 2nd (following the incident). An Exposed Pipe Condition Report was completed for 3844 170th Avenue SE. Greg Haugen, Pilchuck employee, took the reading. He recorded a PSP reading of "negative" 0.0. He took the reading while working on a leak repair. The rectifier was inspected on this day and PSE discovered that it had been cross-wired. This situation was corrected upon discovery.

WUTC Staff Data Request No. 71

Date of Response: June 1, 2005

Person Who Prepared the Response: Jim Hogan, (425) 462-3957

PG-041624 data request response 71.doc

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Exhibit No. _____

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In June, 2004 PSE identified a cracked insulator as a source of the cathodic protection issues that PSE had been investigating and a work order to repair the insulator was created on June 21. The insulator was replaced on September 21, 2004 and re-bonding and troubleshooting of the system continued.

October 12, 2004. PSE discovered that a ground wire from a nearby cell tower was touching the PSE main at the following address: 182 Ave SE and West Lake Sammamish Parkway. This was also part of the cathodic protection investigation that had been underway. PSE corrected this situation on October 18 and the cathodic protection system in the area was fully operational once again on October 19, 2004.

EXPOSED PIPE CONDITION REPORT

2453 (9/01)

ADDRESS 3844 170 Ave SE			CITY/COUNTY BUT. / King	
PLAT NO. 195.090	OP NO.	ORDER NO. 892000134	LEAK NO. M10101163011	
PIPE EXAMINED BY (PRINT FULL NAME) Greg Haugen		COMPANY PCT	DATE 9/1/01	

FACILITY INSPECTED: MAIN SERVICE CASING LENGTH INSPECTED (feet): 4'
 PIPE SIZE: 3/4" PIPE PRESSURE: LP IP HP DEPTH OF FACILITY (Inches): 116"
 PIPE TYPE: STEEL WRAP BARE STEEL CAST IRON WROUGHT IRON COPPER PE
 N/A PIPE MANUFACTURER: PHILLIPS DUPONT PLEXCO CSR POLYPIPE DRISCOPLEX 6500 UNKNOWN
 N/A PIPE BEDDING MATERIAL: ROCKY ROCK FREE

FIRST PSP READ TAKEN (as found, volts): -0.0 READ LOCATION: At MSA to 3844 170 Ave SE
 SECOND PSP READ TAKEN (at job conclusion, volts): -0.0 READ LOCATION: At Tie in to 3844 at MSA

EXTERNAL CONDITION DESCRIPTION:

COATING: NONE BONDED DISBONDED CRACKED DAMAGED
 PIT DEPTH: SURFACE RUST SHALLOW PITS DEEP PITS
 PIT FREQUENCY: NO PITTING ISOLATED PITS FREQUENT PITS NO ORIGINAL SURFACE LEFT

INTERNAL CONDITION DESCRIPTION (required anytime pipe interior is visible):

NO PITS ISOLATED PITS FREQUENT PITS NO ORIGINAL SURFACE LEFT DEBRIS/FLUID

GRAPHITIZATION (cast iron only): YES NO LOCATION: _____
 N/A EXTENT: _____

CONSTRUCTION ACTIVITY: Cut & Cap (include C&C location) _____
 TIE-IN REPAIR REPLACE 3rd PARTY EXCAVATION INSPECTION HOLE

WIRE BOX INSTALLED: YES NO LOCATION: _____

ANODE INSTALLED (only anodes installed on pipe): YES NO LOCATION: _____

COMMENTS: Called PSE Tech. Dick Polkinghorn with Low P.S.P. said system down no need for wires. SVC to be replaced.

GAS SERVICE ORDER D-4 1193 (2/03)		MAIN SIZE: _____		MAIN PRESSURE: <input type="checkbox"/> HP <input type="checkbox"/> IP <input type="checkbox"/> MP <input type="checkbox"/> LP <input type="checkbox"/> RW			
		MAIN TYPE: <input type="checkbox"/> PE <input type="checkbox"/> P.E.I. <input type="checkbox"/> ST <input type="checkbox"/> BARE <input type="checkbox"/> WRP <input type="checkbox"/> CI <input type="checkbox"/> WI		MAIN LOCATION: _____			
		<input type="checkbox"/> SVC <input type="checkbox"/> STUB <input type="checkbox"/> EXT SIZE: _____ TYPE: _____		SVC LOCATION: _____			
		TIE IN JOB: _____		TEST PRESSURE: _____ DURATION: _____		<input type="checkbox"/> AIR <input type="checkbox"/> NITROGEN BY: _____	
		TIE IN LOCATION: _____ FT _____ OF _____ LINE		OF _____		ON _____	
COCK LOCATION: _____		DRIP LOCATION: _____		PSP READ: <u>15</u> CASING SZ/TYP: _____ REG SZ/TYP: _____			
REMARKS: <u>replaced 3/4" STW riser with 5/8"</u>							
STUB (LEN, SZ, TYP): _____		EXT (LEN, SZ, TYP): <u>5' 5/8" PE</u>		BY: <u>G. Haugen</u>			
RETIRED <input type="checkbox"/> SVC <input type="checkbox"/> STUB <input checked="" type="checkbox"/> EXT		LENGTH: <u>5' 3/4" STW</u>		BY: <u>G. Haugen</u>			
CUT & CAP LOCATION: _____		CONTRACTING: <u>PCT</u>		DATE: <u>9-1-04</u>			
		CONTRACTING: <u>PCT</u>		DATE: <u>9-1-04</u>			

EXPOSED PIPE CONDITION REPORT

2/53 (201)

2932 162 Ave SE
 ORDER NO. 892000134 LEAK NO. 01011628130101
 PIPE EXAMINED BY (PRINT FULL NAME) B. HUNT COMPANY PCT DATE 8-30-04

FACILITY INSPECTED: MAIN SERVICE CASING LENGTH INSPECTED (feet) 5
 PIPE SIZE: 1/2" PIPE PRESSURE: LP NP HP DEPTH OF FACILITY (inches) 12"
 PIPE TYPE: STEEL WRAP BARE STEEL CAST IRON WROUGHT IRON COPPER PE
 PIPE MANUFACTURER: PHILLIPS DUPONT PLEXOC CSR POLYPIPE DRISCORPLEX 6500 UNKNOWN
 PIPE BEDDING MATERIAL: ROCKY ROCK FREE
 FIRST PSP READ TAKEN (as found, volts) -0.100 READ LOCATION: AT PUMP TO 2932 162 Ave SE
 SECOND PSP READ TAKEN (at job conclusion, volts) -0.100 READ LOCATION: SAME

EXTERNAL CONDITION DESCRIPTION:
 COATING: NONE BONDED DISBONDED CRACKED DAMAGED
 PIT DEPTH: SURFACE RUST SHALLOW PITS DEEP PITS
 PIT FREQUENCY: NO PITTING ISOLATED PITS FREQUENT PITS NO ORIGINAL SURFACE LEFT

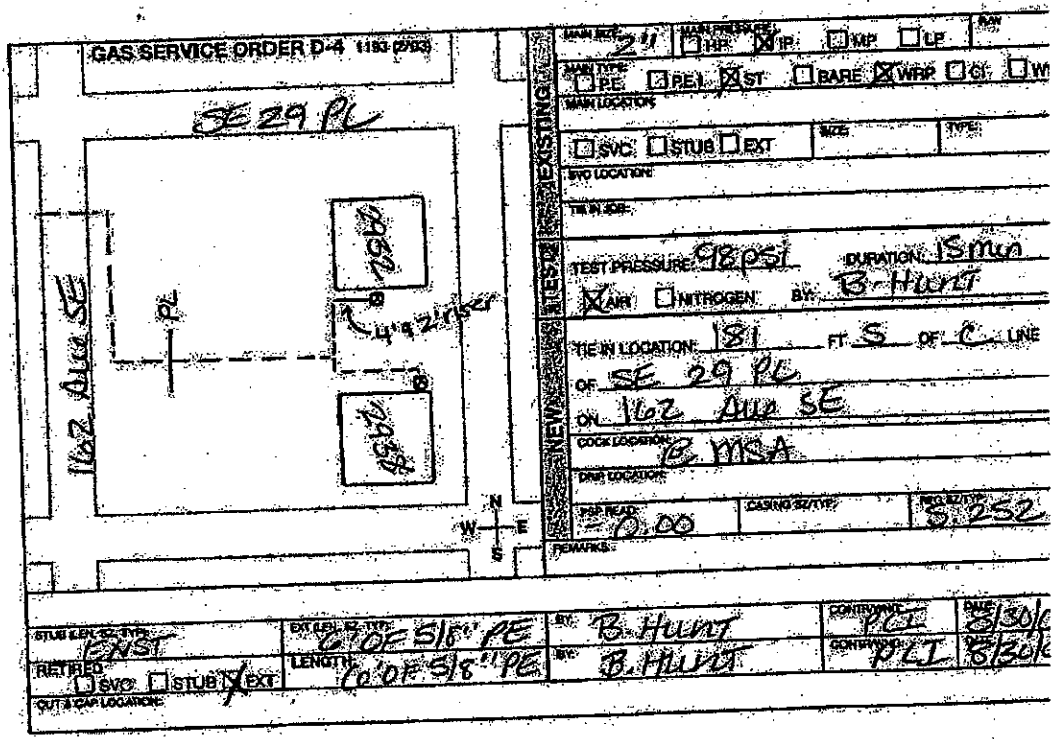
INTERNAL CONDITION DESCRIPTION (required anytime pipe interior is visible):
 NO PITS ISOLATED PITS FREQUENT PITS NO ORIGINAL SURFACE LEFT DEBRIS/FLUID
 GRAPHITIZATION (cast iron only): YES NO LOCATION: U/A EXTENT:

CONSTRUCTION ACTIVITY: Cut & Cap (include C&C location)
 TIE-IN REPAIR REPLACE 3rd PARTY EXCAVATION INSPECTION HOLE

WIRE BOX INSTALLED: YES NO LOCATION:

ANODE INSTALLED (only anodes installed on pipe): YES NO LOCATION:

COMMENTS: Robert Henderson (PSE) had a pen in his pocket P.O.T Also He will Report to CP Tech. Svc. Needs to be Replaced



Bellevue

Don Trotter/WUTC
07/05/2005 01:35 PM

To: Betsy DeMarco/WUTC@WUTC
cc
bcc
Subject: Fw: Data request #71 clarification

--- Forwarded by Don Trotter/WUTC on 07/05/2005 01:35 PM ---



"Secrist, Steve"
<steve.secris@pse.com>
07/05/2005 01:22 PM

To: "Don Trotter \ (E-mail)" <DTrotter@wutc.wa.gov>
"James Williams \ (E-mail)" <jwilliams@perkinscoie.com>, "Amanda J. -SEA Beane \ (E-mail)" <ABeane@perkinscoie.com>, "Sinclair, Nancy L" <nancy.sinclair@pse.com>, "Hogan, Jim" <jim.hogan@pse.com>, "Henderson, Duane A" <duane.henderson@pse.com>
cc
Subject: FW: Data request #71 clarification

Don,
Kim West asked us for some clarifications regarding DR 71. Our answers are provided as follows.

- > Steve Secrist
- > Assistant General Counsel
- > Puget Sound Energy
- > 425-462-3178

> Notice: This transmission is intended for the sole use of the individual and entity to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or duplication of this transmission by someone other than the intended addressee or its designated agent is prohibited. If your receipt of this transmission is in error, please notify me by reply to this transmission.

> -----Original Message-----
 > From: Kim West <KWest@wutc.wa.gov>
 > To: Secrist, Steve <steve.secris@pse.com>
 > CC: Don Trotter <DTrotter@wutc.wa.gov>
 > Sent: Fri Jun 17 15:23:36 2005
 > Subject: Data request #71 clarification

> Hi Steve,

> Regarding response to DR #71:

- > 1. The EPCR for 3844 170th Avenue SE bears a "9/1/01" date on the upper

> right, but a "9/1/04" date on the lower right, and the narrative
> response indicates 9/1/04.

> Should we assume the EPCR is for 9/1/04?

> Yes, the EPCR is for 9/1/04.

> 2. The narrative response to DR 71 states that the "rectifier was
> inspected on this day [9/2/04] and PSE discovered it had been
> cross-wired.

> This situation was corrected upon discovery."

> PSE's response to Staff DR # 51a states that the cross-wiring
> was discovered and corrected on September 3, 2004. See page 6 and 7
> of DR 51a response.

> Please clarify which DR response is the one we can rely on.

> DR #51 is correct. The rectifier cross-wiring was discovered on Sept.
> 3, 2004.

> 3. DR #71 part (d) asked for the company to describe its response
> to the
> discovery of a zero reading. The response narrative for
> September

> 2 does not directly indicate the connection between the reading and
> subsequent PSE action. Was the action in response to the
> reading?

> It is not clear from your response, if you misunderstood the
> request.

> Please describe in detail the follow-up action taken by Puget
> Sound
> Energy as a result of that discovery.

> a.) After the discovery on August 30, 2004, Mr. Brian Hunt of
> Pilchuck discovered a zero reading that was confirmed by Robert
> Henderson (PSE). The EPCR said that, "He will Report to CP
> Tech.

> Svcs NEED TO Be Replaced." Please indicate how the work order
> was
> responded to. For example was a new work order generated? If so
> please provide a copy of the work order.

> PSE Gas Operating Standard 2575.2800 requires that in the case of a
> down read, the crew contact the responsible corrosion control
> technician. This is typically done telephonically. A work order is
> not generated.

> b.) Please indicate who was the CP technician that responded to
> work
> order number 892000134.

> Work order 892000134 is a standing leak repair work order where costs
> for numerous leak repairs are captured. No CP technician worked on
> this work order, it is a cost tracking mechanism for service provider
> crews.

> c.) What did the CP technician do as a result of the zero
> reading?

>
> PSE's actions following the zero reading have been documented in
> earlier data requests and interviews with WUTC staff.
>
> d.) Did the CP technician submit the result to a database or
> did the
> individual investigate the reading.
>
> This question is unclear.
>
> e.) What were the results of the investigation. If completed,
> please provide the supporting documents.
>
> As noted in previous data requests and presentations, the zero read
> was called in to PSE for further investigation. However, on September
> 2, 2004, PSE also began its investigation into the tragic explosion
> and identified on September 3, 2004 that the VASA Park Rectifier was
> cross-wired.
>
> f.) The two EPCRs were generated from the same work order
> number
> 892000134. Please provide a copy of the work order.
>
> A copy of work order 892000134 is attached.
>
> <<scan 2.pdf>>
>
> g.) If this work order was generated from a leak report such as
> leak
> numbers N0016283001 or N0016283001 for August 30, 2004 and
> September
> 1, 2004, respectively, please provide the leak tickets for these
> leak
> numbers.
>
> Leak ticket N0016283 is attached.
> <<scan 3.pdf>> <<scan 4.pdf>>
>
> h.) Please state the reason for the original work order number
> 892000134.
>
> 892000134 is a standing work order that is used to collect costs
> associated with leak repairs.
>
> Kim West,
> Pipeline Safety Engineer
> Washington Utilities and Transportation Commission
> 1300 S. Evergreen Park Dr. SW
> Olympia, WA 98504-7250
> Telephone 360-664-1319
> Facsimile 360-586-1172
>
>
> The WUTC protects consumers by ensuring that utility and
> transportation
> services are fairly priced, available, reliable, and safe.



scan 2.pdf



scan 3.pdf



scan 4.pdf

191088 215 Status

2932 162ND AVE SE 1704 Newell Rd 18-112111 NO01255-0010

Public Date 6/20/2014 Time 12:25:00 Original A

Link Other PSIC No

Reported by

Full Name MRS ECKENHOFF

Address

City

State

Date 5/8/20/2012 Time 12:25:00 Married P 000

Child 101010101010

Date 5/8/20/2012 Time 1:07:00 Employee HENDERSON

Date 5/8/20/2012 Time 1:40:00 Employee HENDERSON

Main Project

Project Status

Work Results

Services No

Salaries No

Job Payroll No

Scan 3

194089 215 1704 162ND AVE SE 158/30/2002 158/30/2002 158/30/2002
 Address City State Zip Date Date Date

HUNTINGTON WOODBINE WOODBINE WOODBINE WOODBINE WOODBINE
 Name Name Name Name Name Name

Response Type: B Leak Repair Pipe Material: Steel/Wrap Size: 7/24 in Call Area: 1980
 Region: PD Below Ground: Yes Pipe Reads: 40.00 Corrosion: Unknown/STW
 Response Name: HUNT/PCI A/Pipe No No No No
 Date Entered: 8/30/2002 Time: 2:00 PM Date: 8/30/2002 Time: 5:00 PM
 Date Reported: 8/30/2002 Time: 5:00 PM Date: 8/30/2002 Time: 5:00 PM
 Response: D Replace Date: 8/30/2002 Duration: 10:15 Pressure: 99 PSI Date: 8/30/2002 Time: 5:00 PM

HUNT/PCI WOODBINE WOODBINE WOODBINE WOODBINE WOODBINE
 Name Name Name Name Name Name

Scan 4