

July 1, 2004

Carole J. Washburn, Secretary Washington Utilities and Transportation Commission P.O. Box 47250 Olympia, WA 98504-7250

Dear Secretary Washburn:

Enclosed is a "PSE - Incident Report - Telephone Notification" form on which we have provided details of an incident that occurred on June 22, 2004 in Seattle. The incident resulted in personal injury requiring hospitalization.

On the morning of June 22<sup>nd</sup>, during purging operations relating to a gas main replacement project, an employee of a contractor performing work for Puget Sound Energy, suffered burns to the face and hands when purge gas ignited. The burns necessitated in-patient hospitalization for treatment and observation.

PSE procedures, "Preventing Accidental Ignition" and "Purging", were not followed.

Puget Sound Energy first became aware of this incident at 15:10 hours on June 22, 2004. The incident was reported to the Washington Utilities and Transportation Commission at 15:30 hours. Mr. Joe Subsits received the call.

Because the reporting requirements of 49 CFR 191.5 were met, this incident was also reported to the National Response Center at 16:20 hours the same day. A copy of the Federal report is enclosed.

Sincerely

Douglas Damm

Standards Program Manager

encl.

94 JUL -6 AN IO: 34

RECEIVED





## **INCIDENT REPORT - TELEPHONE NOTIFICATION**

INCIDENT DATE	STATUTORY REPOR	STATUTORY REPORTING REQUIREMENT			INCIDENT CATEGORY			
6-22-04	WAC 480-930-200	WAC 480-930-200(1)(a)			Personal injury requiring hospitalization			
FIRST NOTICE TO PSE	FIRST PSE ARRIVAL	<del>-</del>	EMERGENC	Y CONTR		TIME OF REPAIR	TEMP	
15:10	No PSE on site		No emerge	ncy		No repair req'd	PERM	
REPORT RECEIVED BY			REPORTED					
Harry Shapiro - PSE			Pilchuck Co	ntractor	S			
ADDRESS OF INCIDENT				-	CITY			
35 Av W and W. Smith St.			<del></del>		Seattle			
DESCRIPTION OF INCIDENT								
During purging operation o	n main replacement, PS	SE service p	rovider crew	failed to	adequate	ly communicate st	eps involved	
in purge procedure. Squee	eze was released before	purge stac	k was install	ed. Who	en gas beg	an to blow in exca	vation,	
employee jumped in to shu	it down blowing gas by s	squeezing it	off. Ignition	occurre	d and emp	loyee was injured,	requiring	
hospitalization.								
INJURY: PSE -	OTHER - 1	·		ATALITY:	DOE	·		
NAME Mike Johnson	ADDRESS Unknown	n (not a PSF		ATALITY:	PSE -	OTHER	₹ -	
	ABBITECO CITATIONI	T (HOL & FOL	- ciripioyee)		CITT			
PHONE	INJURY (DESCRIBE)	Burns (ex	tent unconfi	rmed)		· · · · · · · · · · · · · · · · · · ·		
NAME	ADDRESS		·		CITY		<del></del>	
PHONE	INJURY (DESCRIBE)							
ENVIRONMENTAL IMPACT:								
None								
	•							
PROPERTY DAMAGE:						<del></del>		
None								
PSE FACILITY:			<del></del>			<del></del>		
MAIN: TRANS	SUPPLY DIST X	OP PRESS	<45 psia	MAOP	45 psig	SERVICE: STUB n/a	EXTN n/a	
PIPE SIZE: 2"	DEPTH: Exposed		Polyethylene		io poig	MSA SIZE: n/a	LAINIVa	
CUSTOMER OUTAG	,	TIME OFF:			HT BEGAN:	• • • •		
· · · · · · · · · · · · · · · · · · ·	<del></del>							
OTHER PSE FACILITY INVOLV	/ED:							
None								
MEDIA / AGENCY COVERAGE					·			
None								
ESTIMATED INCIDENT COST.	DOE: 0	·				·		
ESTIMATED INCIDENT COST:	PSE: 0			OTHER:	0			
REPORTED TO:								
#1 AGENCY: WUTC	a	NAME:	Joe Subsits					
ву: Joe Ewing	m.	DATE:	6-22-04		TIME	15:30		
#2 AGENCY: National Respon	se Center		On-duty staf	f	*****	10.00		
BY: Joe Ewing	ness			1		10.00		
BY: JOE EWING		DATE:	6-22-04		TIME	16:20		
			<del></del>					
	TESTING INITIATED?		YES	X	NO	(Conducted by PSE		
	FICATION REVIEW REQUIR		YES	X	NO	(Conducted by PSE	contractor)	
	FOR ADDITIONAL INFOR		YES		NO	X		
30 DAY FOLLOW UP	P ENGINEERING REPORT F	REQUIRED?	YES		NO	Χ		



July 1, 2004

Information Systems Manager
Office of Pipeline Safety
Research and Special Programs Administration
U.S. Department of Transportation
Room 8417
400 Seventh Street SW
Washington, DC 20590

Enclosed is RSPA Form F7100.1, "Incident Report – Gas Distribution System", on which we have provided details of an incident that occurred on June 22, 2004 in Seattle, Washington. The incident resulted in <u>personal injury necessitating in-patient hospitalization.</u>

During purging operations relating to a gas main replacement project, an employee of a contractor performing work for Puget Sound Energy, suffered burns to the face and hands when purge gas ignited. The burns necessitated in-patient hospitalization for treatment and observation.

Puget Sound Energy first became aware of this incident at 15:10 hours on June 22, 2004. The incident was reported to the Washington Utilities and Transportation Commission at 15:30 hours followed by notice to the National Response Center at 16:20 hours the same day.

Sincerely,

Douglas Damm Standards Program Manager Puget Sound Energy

encl.

cc: Washington Utilities and Transportation Commission

Form Approved OMB No. 2137-0522



Important   Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at http://oxe.doi.org/   1. Operator Name and Address   Please Section Number (I known)   2   2   1   8   9	Research a Sciance of Administration SY	Γ - GAS DISTRIBUTION /STEM	Report Date:  No: (DOT Use Only):		
1. Operator Name and Address 2. Operator's 5-digit Identification Number (if known)   2   2   1   8   9   3. It Operator does not own the pipeline, center Owner's 5-digit Identification Number (if known)         4. Operator aftered address   PO Box 90688   5. Operator aftered address   PO Box 90688   6. Operator afteress   PO Box 90688   7. Operator address   Po Box 90688   7. O	requested and provide specific examples. If	vou do not have a copy of the	eain. They clarify the information		
c. MAOP established by: (1) Test Pressure psig (2) 49 CFR § 192. 619 (a)(3) X  PART B PREPARER AND AUTHORIZED SIGNATURE  Douglas Damm. Standards Development Representative (type or print) Preparer's Name and Title  426.462.3721 Area Code and Telephone Number  doug.damm@pse.com Preparer's E-mail Address  425.462.3770	PART A = GENERAL REPORT INFORMATION  1. Operator Name and Address  a. Operator's 5-digit Identification Number (if known) /2 /2 /1  b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (if known) /2 /2 /1  b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (if known) /2 /2 /1  b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (if known) /2 /2 /1  b. If Operator does not own the pipeline, enter Owner's 5-digit Identification Number (if known) /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	iginal Report	complete all that apply) Total number of people: /_ / _ /  // General Public: /_ / _ /  hospitalization // 1 / // General Public: /_ / / // Cestimated) Total \$		
Douglas Damm. Standards Development Representative (type or print) Preparer's Name and Title  doug.damm@pse.com Preparer's E-mail Address  426.462.3721 Area Code and Telephone Number		c. MAOP established by: (1) Test Pressure(2) 49 CFR § 192. 619 (a	psig		
	Douglas Damm. Standards Development Representative (type or print) Preparer's Name and Title  doug.damm@pse.com		rea Code and Telephone Number		

<u>Douglas Damm, Standards Development Rep.</u> (type or print) Name and Title

Authorized Signature

7-1-04

425.462.3721

Area Code and Telephone Number

PART CEORIGIN OF THE INCID	<b>JENT</b>						
1. Incident occurred on  X Main O Meter Set O Service Line O Other: O Pressure Limiting and Regulating Facility  2. Failure occurred on (No failure) O Body of pipe O Pipe Seam O Joint O Component O Other:  O Other:			3. Material involved (pipe, fitting, or other component) (No failure)  O Steel  O Cast/Wrought Iron  X Polyethylene Plastic (complete all items that apply in a-c)  O Other Plastic (complete all items that apply in a-c)  Plastic failure was: □ a. ductile □ b. brittle □ c. joint failure  O Other material: □  4. Year the pipe or component which failed was installed: □ □  1.   □ □ □ □ □ □ □  3.				
PART D-MATERIAL SPECIFIC	ATION (if applicable) N	V/A PAI	RIJE-ENVIRONMENT				
Nominal Pipe Size (NPS)     Wall thickness     Specification     Seam type		in. (	Area of incident O Under pavement O Under ground O Inside/under building Depth of cover:	O In open ditch O Above ground O Under water O Other: inches			
Valve type      Pipe or valve manufactured by _							
6. Fipe of valve mandiactures 5,		25 numbered cal		in year / / / / / the box to the left of the <b>primary</b> cause of			
PART F - APPARENT CAUSE	the incident. Check o indicate. See the inst	one circle in each of	the supplemental items to t	the box to the left of the <b>primary</b> cause of the right of or below the cause you			
F1 - CORROSION N/A	If either F1 (1) External Corre			complete all subparts a - e.			
1. External Corrosion	a. Pipe Coating b. V O Bare C O Coated C	Visual Examination  Localized Pitting  General Corrosic  Other:	c. C On C	ause of Corrosion  Galvanic O Stray Current  Improper Cathodic Protection  Microbiological  Other:			
	d. Was corroded part of pipel O No O Yes, Yea	line considered to b					
2. Internal Corrosion	e. Was pipe previously damage	aged in the area of c		/ / / months			
F2 - NATURAL FORCES N/A	<del></del>			<u>L. L. J.</u> morale			
3. ☐ Earth Movement ⇒ 4. ☐ Lightning	O Earthquake O S	Subsidence O L	Landslide O Other:				
5. ☐ Heavy Rains/Floods ⇒	O Washouts O F	Flotation O M	Mudslide O Scouring	O Other			
6. ☐ Temperature ⇒ 7. ☐ High Winds	O Thermal stress O F		Frozen components O Othe				
F3 – EXCAVATION N/A	The standard that a section	t des empleade					
9. Third Party Excavation Da. Excavator group O General Public b. Type: O Road Wo O Building Co. Did operator get prior O No O Yes: D Notification U Was pipeline marked O No O Yes (If Y	O Government O Excavar of the O Pipeline O Water O Construction O Other:	rator other than Oper O Electric O Sev  ty?  day rall System O Ex	rator/subcontractor wer O Phone/Cable/Fiber				
ii. Perm iii. Marks	marks made within required time	No ccurate O Not Acc					
	Fire/Explosion as primary cause of failure $\Rightarrow$ Fire/Explosion cause: O Man made O Natural Describe in Part G.						
_							
13.  Vandalism	· ·						

. F5 - MATERIAL OR WEL	.DS N	/A				
Material						
14. D Body of Pipe	$\Rightarrow$	O Dent	O Gouge	O Wrinkle Bend	O Arc Burn	O Other:
15. Component	$\Rightarrow$	O Valve	O Fitting	O Vessel	O Extruded Outlet	O Other:
16. D Joint	$\Rightarrow$	O Gasket	O O-Ring	O Threads	O Fusion	O Other:
Weld						
17. 🔲 Butt	$\Rightarrow$	O Pipe	O Fabrication			O Other:
18. 🔲 Fillet	$\Rightarrow$	O Branch	O Hot Tap	O Fitting	O Repair Sleeve	O Other:
19. Pipe Seam	⇒	O LF ERW	O DSAW	O Seamless	O Flash Weld	
		O HF ERW	O SAW	O Spiral		O Other:
Complete a-g if you	indic	ata <b>anv</b> cauce	a in part F5			
a. Type of failure:		aic airy caust	e iii pait i 5.			
<u> </u>		efect ⇒ O Poor	Wadamanshin	O Procedure not f	followed O Pear Co	enstruction Procedures
☐ Material			VV OI MITATISTIIP	O Flocedule flot	ollowed O Poor Co	ristruction Procedures
			ed in transportation	to the construction or	fabrication site?	Yes O No
		~	•	urred? O Yes, con		O No
d. Date of test:		// mo. //	/ day //_	⊥ yr.		
e. Time held at te	st pres	sure: / /	/ hr.			
	•	•	ent:		PSIG	
F6 - EQUIPMENT OR OP						
20. Malfunction of Cor	ntrol/Re	elief Equipment	⇒ O Valve 0	O Instrumentation O	Pressure Regulator	O Other:
21. Threads Stripped,	Broke	n Pipe Coupling	⇒ O Nipples (	O Valve Threads C	Mechanical Couplings	O Other:
22. Ruptured or Leaki					, 3	
			•••••			
23. X Incorrect Operation	ndon is	ita Branaduras N	/ Inadaguata Cafat	Proctices V Failure	to Fellow Breedwas	O Others
a. Type: O Inadequate Procedures X Inadequate Safety Practices X Failure to Follow Procedures O Other:  b. Number of employees involved in incident who failed post-incident drug test: /_ / 0 / Alcohol test: /_ / 0 /						
			d per OQ rule?			erson involved: / / 3 /
F7 – OTHER N/A	OIVEG	Thousant qualitie	a per OQ raie:	X Tes O No	d. Hours on duty for pe	erson mivolved. [ [ ] ]
24. Miscellaneous, de	scribe	,				
25. Unknown	00/100.					
O Investigation Complete O Still Under Investigation (submit a supplemental report when investigation is complete)						
				• •		
PARTICE NARRATIVES					<del></del> '	
						t Sound Energy contractor
						ing injection of the purge gas
was opened before a vent stack could be installed that would have directed the purge gas upward and out of the excavation. This was caused by a lack of communication between two contractor employees who were not in visual						
contact.						
Since no control valv	e ha	d been installe	ed at the downs	stream (onen) en	d of the nine section	n heing nurged the
Since no control valve had been installed at the downstream (open) end of the pipe section being purged, the employee stationed there attempted to squeeze the polyethylene pipe to control the gas flow but ignition occurred						
when he contacted the	ne pip	e. PSE proc	edures, "Prever	nting Accidental I	gnition" and "Purgi	ng", were not followed.