

Memorandum

Date: March 20, 1989
To: GOLDEN GATE REGION
From: GAS SYSTEM DESIGN
Subject: Failure of Longitudinal Weld on
30-Inch Steel Pipe

File # 460.21

Buss



[Redacted]

Thank you for bringing to our attention the problem with the longitudinal weld on the 30-inch steel pipe. The Gas System Design Department has finished processing the Material and/or Equipment - Problem or Failure Report you submitted (GSD received date 11/28/88). A copy of the completed report is attached.

If you have any questions concerning this report, please contact me on Ext. [Redacted]

[Redacted]

[Redacted] (223-1888):cm

cc: [Redacted]

Will find its way to you sooner or later - BUT HERE'S ADVANCE COPY

Attachment

[Redacted]

MATERIAL AND/OR EQUIPMENT - PROBLEM OR FAILURE REPORT

NOTE: Do not use this form for reporting failures or accidents which result in death, injury, and/or property damage. Also, this form should not be used for reporting corrosion leaks in pipe, or replacement due to normal wear.

TO BE COMPLETED BY FOREMAN AND/OR LOCAL ENGINEERING STAFF
See Attachment 2 of S.P.460.21-7 for Instructions

- Failed material or equipment LONGITUDINAL WELD ON 30" T.L. 132
- Location (address) where failure occurred [redacted] City, Co. [redacted]
- Material or equipment details and description of problem or failure
A PINHOLE LEAK WAS FOUND ON THE LONGITUDINAL WELD ON 30" T.L. 132.
- Service information: Date installed 1948 Other information GM 98015
- Disposition of failed material Delivered to [redacted] G.B.R. Gas Manager on 11-4-88.
- Person to contact for information [redacted] Telephone [redacted]
- Reported by: [redacted] Location Peninsula Region G.6 Date 10-27-88
- Noted by Regional office: By [redacted] Date 8/8/11/88

SEND ORIGINAL TO MANAGER GAS SYSTEM DESIGN DEPARTMENT - ROOM 2857, 77 BEALE STREET

FOR USE BY GAS SYSTEM DESIGN DEPARTMENT DATE RECEIVED

- Review assigned to: [redacted] - GS) 11/29/88
- Copies distributed to: (Gas Dist.) _____
- Evaluation, comments and action by Gas System Design:
FAILED SECTION OF PIPE WAS INSPECTED. SEE THE ATTACHED T&S LETTER DATED 3/1/89.
- Evaluation completed by: [redacted] Telephone [redacted] Date 3/15/89
- Approved by: [redacted] Date 3-20-89

GAS SYSTEM DESIGN		
PCH	F/U Date	NCR
JRG	NOV 28 1988	KMB
RCB		ED
JAC		GM
SYG	CIRCULATE	HANDLE
RFD	COMMENT	FILE
RRR		

FEEDBACK*
14. By: OEA Date 3/20/89 Method letter
To: _____

* IMPORTANT: Feedback must be provided on all Material Problem or Failure Reports, either by letter or copy of completed report. Distribution should be made as outlined in the Guidelines (Supplement to S.P. 460.21-7).

62 0291 (REV 9/82) NO DAY YR

JOB ESTIMATE

JOB COORDINATOR S RC NUMBER 0269

DATE OF ESTIMATE 103188

DEPARTMENT SAS DISTRICT PENINSULA DIVISION GOLDENGATE REGION 02

APPLICANT PACIFIC GAS & ELECTRIC CO. SOURCE DOCUMENT OF ESTIMATE No 0234691727

LOCATION [REDACTED] COUNTY [REDACTED] PROJECT IDENTIFICATION NUMBER (PIN) G.D. 102188127

JOB TITLE VO TRANSMISSION MAINT GENERAL NEW BUSINESS/APPLICANT BILLING DATA

NAME OF PROJECT/PHASE COORDINATOR GALE SIU PG&E Est 626-7214 TOTAL SPECIFIC PROJECT/PHASE BUDGET AMOUNT \$

NECESSITY FOR PROPOSED WORK AND DESCRIPTION THEREOF

IT IS NECESSARY TO REPLACE A 6' SECTION OF 30" T.L. 132 DUE TO A LONGITUDINAL WELD DEFECT.

ESTIMATED BASE ANNUAL REVENUE \$

RESIDENTIAL ELECTRIC, NON P T GAS US ELEC OR GAS TRENCH FT No UNITS

CONTRIBUTIONS EXCESS SERVICE CHARGE \$

OTHER \$

REFUNDABLE ADVANCE \$

OTHER RELATED JOB AUTHORIZATIONS (INCLUDING D & C)

D & C No

OTHER JOB No

PERC PROJ No

DCE LOCATION

ESTIMATOR

DATE REQUIRED 11-11-88

RECOMMENDATION RULE No and RATE SCHEDULE COMPANY EXPENSE

ACCOUNT	SUB ACCOUNT	SPECIAL CODE	DESCRIPTION OF DIRECT COST ITEMS	WEEKDAYS OF EST AMOUNT	LABOR	AMOUNT (Dollars Only)			
						MATERIAL	EMPLOYEE RELATED COST	CONTRACT OR OUTSIDE SERVICES	OTHER
02 132	3475 6034		SHUTDOWN AND RESTORE MAIN	40	5800		75	1000	
02 132	3664 2040		REPAIR LONGITUDINAL WELD DEFECT	22	3190	300		5000	

TOTAL AMOUNT (Dollars Only)		TOTAL CAPITAL DIRECT COSTS		TOTAL M&O DIRECT COSTS		TOTAL DIRECT COSTS	
15365		15365				15365	
TOTAL CAPITAL DIRECT COSTS		TOTAL M&O DIRECT COSTS		TOTAL DIRECT COSTS		TOTAL DIRECT COSTS	
				15365		15365	

FOR ACCOUNTING USE ONLY		FOR ACCOUNTING USE ONLY		FOR ACCOUNTING USE ONLY	
CHECKLIST	NOYD	SECT	WEEKDAYS	WEEKDAYS	WEEKDAYS
J.P. INTENTION			NONE		
R&E APPL. No.			NONE		
TREE TRIMMING			YES		
CITY OR CO PERMIT			NONE		
HIGHWAY PERMIT			ALL		
R.R. RING PERMIT			6?		
OTHER PERMITS					

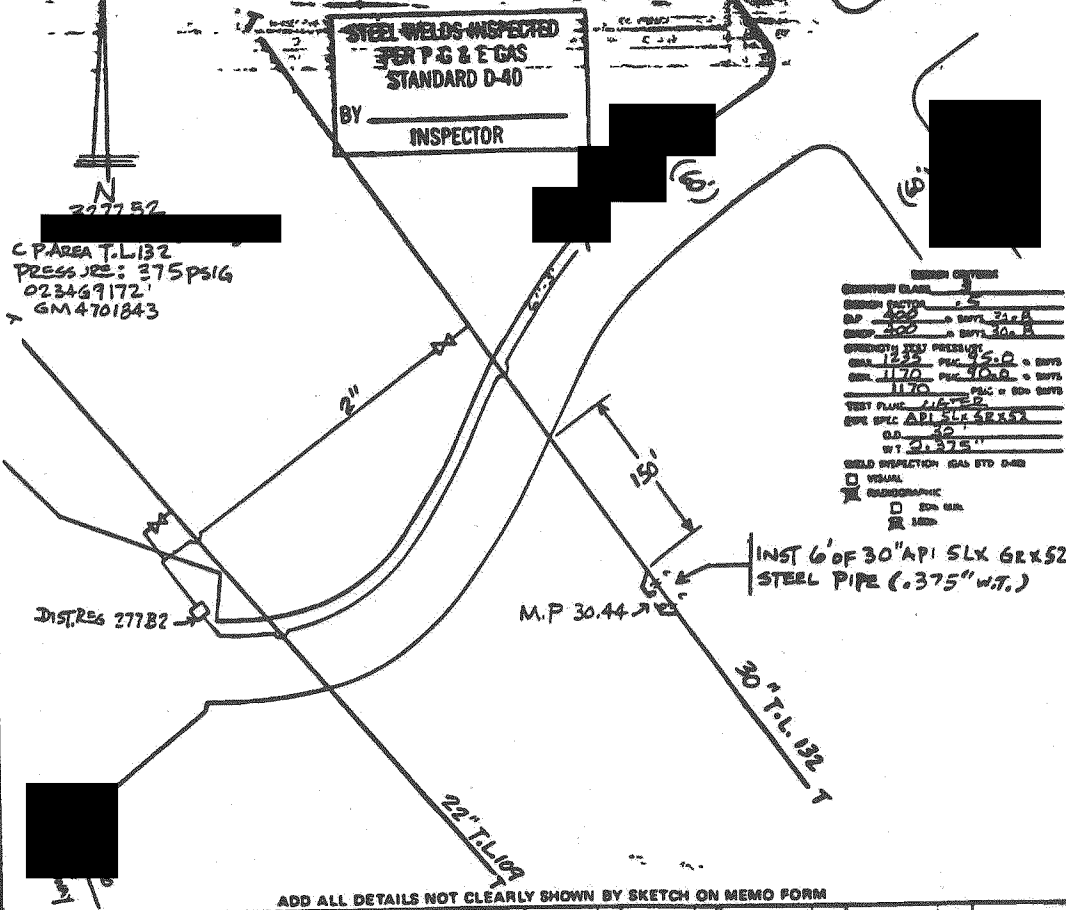
JOB ORDER NUMBER GM4701843

Date Work Started _____ Date Completed _____ Foreman Signature _____

MATERIAL USED ON THIS AUTHORIZATION				LOCAL PURCHASE ORDERS	MAPPING RECORD
DEBIT				REFERENCE Nos	POSTED TO DATE
					H Sheet
					Plan Sheet
					Prop. Tax Rec.
					Plot Sheet
					Switch & Wall Map

For transformer installation - Job Foreman shall show following data on sketch at transformer location: Type, Mfg Serial No., KVA, Voltage, New or Old (If space is insufficient, add separate sheet with same data and transformer location grid coordinates or pole reference number.)

SKETCH OF WORK - Foreman to correct & charge for work - showing D.K. by installing form



ADD ALL DETAILS NOT CLEARLY SHOWN BY SKETCH ON MEMO FORM

Code Area	Pub RW	COUNTY	RA-UNINC	RA-INC	NOR RA	UG	CL	SL	UG
Poles - Twp.	Pvt RW						OH		
Cond	No Trls					Cables	Conduit	Line No	Computer
	KVA								

Form 100-1000 (01/07)

GRADE 1 LEAK RESPONSE
(For Downgraded or Deleted Grade 1 Leaks)

OWNER: BRISTOL

DATE: 11/18/08 TIME: 4:00 PM

OPERATOR: OVERMAN

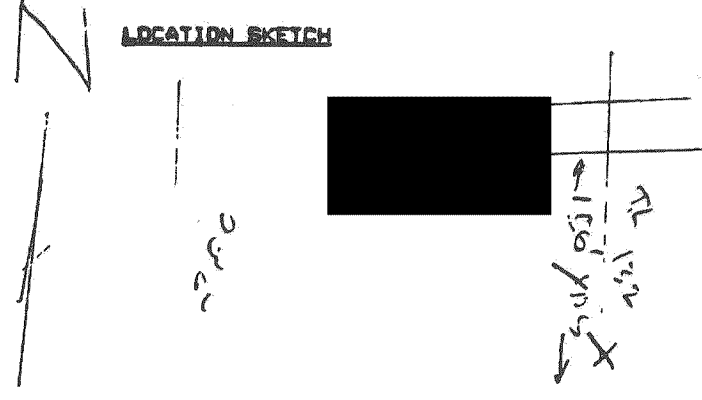
TIME: 4:00 PM

Report By: 11 Service Special District No: 11 Authorized By: _____ Date: 11

LEAK TYPE	LOCATION/REMARKS	TIME	DATE	OPERATOR	ACTION/FOLLOW-UP

Leak Type: H - Hydrogen flame ionization OR C - combustible gas indicator

LOCATION SKETCH



Date: December 1, 1988

File #: 460.21

To: GOLDEN GATE

From: GAS SYSTEM DESIGN

Subject: Failure of Longitudinal Welding on
30-Inch Steel Pipe



[REDACTED]

I have received the Material and/or Equipment - Problem or Failure Report that you prepared describing the failure of the longitudinal welding on 30-inch steel pipe. This report has been assigned to [REDACTED] of the Pipe Line System Engineering of Gas System Design Department. The evaluation for this report is expected to be completed by April 1989.

If you have any questions concerning this report, please contact me on Ext. [REDACTED]

[REDACTED]

[REDACTED] :cm

cc: [REDACTED] (attachment)

02-0210 (rev 3-88)

Memorandum

Date March 1, 1989 File # 4152
To GAS SYSTEM DESIGN
From TECHNICAL AND ECOLOGICAL SERVICES
Subject [REDACTED] 30" Transmission Line Failure



[REDACTED]
A section of the 30" [REDACTED] transmission line (132) was removed for failure analysis because of a pinhole leak in the longitudinal seam weld (see attached materials failure report). X-ray, dye penetrant, and magnetic particle inspections were performed on the submitted section, but these did not locate the leak. The X-ray and subsequent metallographic examination identified several weld shrinkage cracks, but they did not extend through wall. The cracks are pre-service defects, i.e., they are from the original manufacturing of the pipe joint.

Overall, the X-ray inspection showed the weld to be of low quality, containing shrinkage cracks and voids, lack of fusion, and inclusions. Although the actual leak could not be found, it is likely that it was related to one of the weld defects. With the leak removed, the remaining pipe should be fully operational again.

If you have any further questions, please contact myself or [REDACTED] respectively.

[REDACTED]

[REDACTED] kar *kar*
033102 [REDACTED]

xc [REDACTED]

Attachment