



PG&E QA AUDIT *NONCONFORMANCE* REPORT (NCR) (RISK-7001S-F02 Rev7)

Report Number: NCR05

Report Date: 3/3/2010

Status: Final

Subject: Aerial Patrol Follow Up

Executive Summary: There is no documented follow-up to issues noted during aerial patrols in Sacramento even though the aerial patrol form indicates the issue "Needs Further Ground Review".

NC Significance: Tier 2

Responsible Party:

Auditor(s): [REDACTED]

Audit Details

Audit Number: 2009 -0115

Audit Location: Systemwide

Audit Category: Damage Prevention

Is Part of Finding? Yes

Finding # (if Yes): FIR01

REFERENCE(S)

Aerial Pipeline Patrol Manual

Aerial Pipeline Patrol Process

9. Investigate observation listed on report and determine impact to pipeline.
10. Document the response to the observation on a Work Request.
11. Complete the Work Request after patrolling issues have been completed.
14. Review the Aerial Patrol Report for completeness
15. If action was required, complete documentation (Aerial Patrol Report and/or Work Request)
16. File the documentation in a file/binder sorted by flight route number.
17. These records, which describe PG&E's response, must be kept for the life of facility, and must be presented upon request during an audit.

DESCRIPTION(S):

Review of aerial patrol records in Sacramento revealed there is no documented follow up on issues or pilot observations even though the patrol form clearly indicates the issue / observation "Needs Further Ground Review".

POTENTIAL IMPACT:

Failure to document follow up actions in response to issues identified during the aerial patrol leaves it unclear if any further ground review was performed even though the patrol form clearly indicates "Needs Further Ground Review."

Failure to perform additional ground review / investigation could lead to dig-ins, unreported and hence unmitigated damage to pipelines leading to failure and loss at a later time.

COMMENTS



PG&E QA AUDIT **NONCONFORMANCE** REPORT (NCR)
Continuation Sheet

(RISK-7001S-F02 REV7)

Provisional Comments/Guidance:

ATTACHMENTS:

See Sacramento Aerial Patrol Reports dated June 15 & 16, 2009 and September 10 & 11, 2009 titled "NCR air follow up Sacto.pdf", attached.

See Aerial Pipeline Patrol Process titled "NCR air follow up Aerial Pipeline Patrol Process.pdf", attached.

Aerial Pipeline Patrol Process

Category	Activity	Responsibility
Aerial Patrol Frequency	1. All pipelines are flown quarterly, at a minimum. 2. Some areas are flown more frequently depending on the activity around the pipelines. 3. The schedule defining the frequency of the air patrol is attached.	Pilot
Aerial Patrol Observations	4. Follow the established flight schedule. 5. Observations from the air are to be included, at a minimum, and listed on page 3 of the air patrol report. 6. When no new hazards are observed, indicate that on the report. 7. When an observation is made, use the contact numbers listed on the Aerial Report Form to notify appropriate PG&E personnel. Indicate the observation on the report. 8. For emergency situations, and District can't be reached, contact Brentwood Gas Control.	Pilot
Aerial Patrol Requiring Supplemental Ground Patrol	9. Investigate observation listed on report and determine impact to pipeline. 10. Document the response to the observation on a Work Request. 11. Complete the Work Request after patrolling issues have been completed.	Crew
Documentation Air Patrol Company	12. Send the completed Aerial Patrol Report to the responsible district within 48 hours of patrol. 13. Retain copies of all documentation for audit and backup purposes.	Pilot
Documentation Field Office	14. Review the Aerial Patrol Report for completeness. 15. If action was required, complete documentation (Aerial Patrol Report and/or Work Request). 16. File the documentation in a file/binder sorted by flight route number. 17. These records, which describe PG&E's response, must be kept for the life of facility, and must be presented upon request during an audit.	Crew Crew MA MA
Blow-downs	18. Will notify pilot of any scheduled Blow-downs due to clearances or other pipeline maintenance activities.	District / Clearance Supervisor
Flight Schedule Changes / Additions / Deletions	19. To request a change to the Aerial Patrol process; either to the flight schedule or pipelines patrolled, contact the GT&D Compliance Analyst [REDACTED] will be responsible for coordinating the changes with the Mapping group, and other involved groups.	GT&D Compliance Analyst

Gas Pipeline Aerial Patrol Report
2/2/09

GT&D Aerial Patrol

Aerial Patrol Report

Flight Number: Division Central - 3
(Sacramento Division)

Date: MON. + TUES.
JUNE 15 + 16 - 2009 Plane FAA: 50443

Pilot: [REDACTED]

Weather: AM CLEAR - CLEAR

Radio: Operable Inoperable

PM CLEAR - CLEAR

FLIGHT SCHEDULE

From	To	Flight Hours	Comments/Passengers
VACAVILLE	VACAVILLE	6.6	
VACAVILLE	VACAVILLE	7.5	

PIPELINES PATROLLED

Sacramento - [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

Pipeline	From M.P.	To M.P.	No Findings	Needs Further Ground Review	Unable to Patrol	Rescheduled Date
L-108	61.67	74.93	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-116	0.00	12.85	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
L-119A	0.00	16.46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119B	0.00	10.17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119C	0.00	6.69	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Entered 6/23/09 [REDACTED]
L-119D	0.00	4.64	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-123	0.00	1.48	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-150	0.00	18.09	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-159	0.00	4.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-172A	45.80	79.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
L-172C	0.00	0.25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-210A 32"	1.35	22.89	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-210B 16"	1.36	23.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
L-210C 24"	19.46	23.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-220	14.25	34.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(See back page for details on "Needs Further Ground Review")

Gas Pipeline Aerial Patrol Report

GT&D Aerial Patrol

Flight Number: _____

Date: _____

Observations To Report Any Findings Listed Above
 (This report confirms the verbal report transmitted on the day of patrol)

Pipeline No.	Mile Point	Date	Radio Contact		Pilot Observations	Veg Cond
			Time	Report to		
210 B	14.5 TO 15.0	6-16 2009	13:33	[REDACTED]	FAIRFIELD + SUISUN CITY: IN [REDACTED] PIPE PROJECT + TRENCHING IN PROGRESS - USA MARKINGS PRESENT - PGE PROJECT [REDACTED] IS AWARE	ASPHALT
172 116	77.1	"	"	"	WEST SACRAMENTO: SOUTH SIDE OF [REDACTED] [REDACTED] NEAR [REDACTED] OR [REDACTED] ON [REDACTED] [REDACTED] - LOT CONSTRUCTION + PAST STREET TRENCHING - JOB IDLE	ASPHALT
16" 119c	1.2	"	"	"	SACRAMENTO: IN THE INTERSECTION OF [REDACTED] [REDACTED] + [REDACTED] ON GOING SIDE WALK WORK IN PROGRESS + BARRICADED - JOB IDLE	CONCRETE ASPHALT

Gas Pipeline Aerial Patrol Report
2/2/09

GT&D Aerial Patrol

Aerial Patrol Report

Flight Number: **Division Central - 3**
(Sacramento Division)

Date: **THUR + FRIDAY** Plane
SEPT 10 + 11 - 2009 FAA: **50443**

Pilot: [Redacted] [Redacted]

Weather: AM **CLEAR**

Radio: Operable Inoperable

PM **CLEAR**

FLIGHT SCHEDULE

From	To	Flight Hours	Comments/Passengers
VACAVILLE	VACAVILLE	7.3	
VACAVILLE	VACAVILLE	7.0	

PIPELINES PATROLLED

Sacramento - [Redacted] Office [Redacted] / Cel [Redacted]

Pipeline	From M.P.	To M.P.	No Findings	Needs Further Ground Review	Unable to Patrol	Rescheduled Date
L-108	61.67	74.93	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-116	0.00	12.85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119A	0.00	16.46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119B	0.00	10.17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119C	0.00	6.69	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-119D	0.00	4.64	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	entered 9/14/09
L-123	0.00	1.48	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	[Redacted]
L-150	0.00	18.09	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L-159	0.00	4.70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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(See back page for details on "Needs Further Ground Review")

