Job Loss Analysis

ID No: 2000120 **Status:** Closed **Original Date:** 4/23/10
Last Review Date: 30/Aug/2010

Organization:

SBU: Richmond Refinery
BU: Richmond Refinery-Local
Work Type: Technical Process Engineering
Title (Work Activity): Process Engineering Lab Testing—Abnormal lab results on routine samples
Site/Region:

Personal Protective Equipment (PPE)	Selected	Comments
Proper PPE per your Refinery Guidelines	Y	
Additional Task Specific PPE		
Other		
‘		

Reviewers

Reviewers Name	Position	Date Approved
Michelle Johansen	Process Engineering Manager RI Refinery	30/Aug/2010

Development Team

Development Team Member Name	Primary Contact	Position
Michelle Johansen	Y	Process Engineering Manager
Adam Lovano		Process Engineering
Aaron Sims		Lead Process Engineer
Charles Odumah		Process Engineer
Chris Robinson		Process Engineer

Job Steps

No	Job Steps	Potential Hazard	Critical Actions

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1	Review unit for off-test or abnormal lab results	1. Lost Profit Opportunity: • units are not optimized • refinery products are off test • downstream plants are impacted • corrosion in plant	1a. Review plant/unit turnover, unit PMO, or computer lab results to determine time abnormal/off-test sample was taken. 1b. Review if recheck sample was sent to lab and expected time back. Expedite if necessary by calling lab.
2.	Review plant process data	1. Lost time from lab and process engineer if off-test samples were the result of plant upset.	1. Review process plant data to see if abnormal sample results were from a plant upset.
3	Discuss findings with Lead engineer, Senior engineer, BIN leader and recommend next steps.	1. Lost time by engineer and lab or an LPO if off-test sample results are not addressed.	1. Review process data, lab data and proposed path forward on addressing off-test stream(s)
4	Make recommendations to Operations on how to get on-test if sample results are accurate.	1. Lost Profit Opportunity if units are not optimized or refinery products are off test. 2. Downstream plant effects resulting in LPO, cat degradation, off-test product due to off test feed. 3. Corrosion issues resulting in unplanned T/A or loss of containment.	1.Make reco to Operations on plant moves to get back in operating range. 2. Notify downstream plant engineers, so they can review their plants for abnormal operation. 3. Notify inspection on potential corrosion impacts including the time stream was off-test and sample result.
5	Notify lab if sample results are suspected to be inaccurate.	1. Loss of lab and engineers time if issues are not addressed.	1a. Send email with specifics on abnormal test result including date/time/expected range and actual result. 1b. Set up meeting with lab to discuss abnormal results.
6	Resolve abnormal sample results with lab.	1. Loss of engineering and lab time if abnormal results are not addressed.	1a. Review repeatability, reproducibility, and lab variation in lab test. 1b. Review testing interferences 1c. Review sampling methods and required sampling containers with the lab. 1c. Review instrument calibration. 1d. Review alternative testing plan.

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7	Make any necessary changes on sampling and communicate results.	1. Loss of engineering, operations, and lab time in the future if testing inaccuracy occurs again.	1a. Review if sampling procedure or test method needs to be changed. 1b. Share communication with PED Manager/Team Leader so other process units that may be affected by the information can review their sampling. 1c. Share communications with Operations in crew meetings/email/turnovers/etc. 1d. Document Findings in PED files like GDW, PMO folder, Monthly report, etc.

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