


Lessons Learned

Date: 3/21/2023

Region: National Service – Montana

Project: Rocky Mountain Labs

Incident Title: Pressurized Line Cut Into

Summary	Picture
<p>Click or tap here to enter text..</p> <p>An Apollo employee was working with his supervisor and pressure testing two systems at one time. The systems ran parallel to one another. During their pressure test, Apollo was notified that the lines needed to be modified as they were interfering with the design of the ceiling. The employee performing the pressure test went and bled down the systems. The employee thought both systems had been depressurized, however when he went to cut into a 2" copper line with a Milwaukee auto-cutter there was a loud noise, and his tool was kicked back into his left knuckle leaving a minor laceration. The employee immediately realized only one system was bled down and forgot that the final line he cut into was separate from the first 3 lines, and consequently was still pressurized at 100 psi. The employee suffered a minor cut but the "Oh Shit Factor" was very high. During the investigation it was found that the Apollo team members were missing key elements from our AISH 41 Flushing and Pressure Testing Procedure while performing pneumatic tests.</p>	
What Went Right?	What Went Wrong?
<ul style="list-style-type: none"> • Apollo had a test header installed and pressure relief valves during pressure testing. • Pressure test certificates were being produced and used. • Initial crew performing pressure testing was trained. 	<ul style="list-style-type: none"> • Apollo did not have tags identifying which systems were under pressure • Testing area was not barricaded and allowed for other trades to be inside of the recommended safe distance determined by calculation. • Information was not communicated up and down the flagpole. Miscommunication from management to field and vice-versa.
Lessons Learned	
<ul style="list-style-type: none"> • Re-training is to be completed with all individuals involved in pressure testing using the Apollo AISH 41 procedure. • Direct supervision is to be maintained during the pressure test. • A 24-hour notice will be required to be given to all trades in the affected area, so that the testing can be done without unnecessary exposure • Area will be barricaded the appropriate amount of distance back with signs indicating pressure test being performed do not enter. 	

