



HAZOP Template

conducted for

Zoraya Chemical Mixing Plant

Location

Atlanta, GA

Conducted on

09 Jan 2019 01:41 PM

Prepared by

Serrah Engel

Completed on

09 Jan 2019 02:15 PM

Score

0/0.0 - 0.00%

Actions


#1. Review and do maintenance work on the hydraulic pressure gauge of the centrifugal pump.



Assignee: jessclementi@zorayachem.com
Priority: MEDIUM
Due Date: 10 Jan 2019 02:00 PM
Audit: Zoraya Chemical Mixing Plant / Serrah Engel / 09 Jan 2019
Linked to item: Comments
Status: To Do

#2. Install level indicators on the centrifugal pump

Assignee: jessclementi@zorayachem.com
Priority: HIGH
Due Date: 11 Jan 2019 02:10 PM
Audit: Zoraya Chemical Mixing Plant / Serrah Engel / 09 Jan 2019
Linked to item: Comments
Status: To Do

Audit

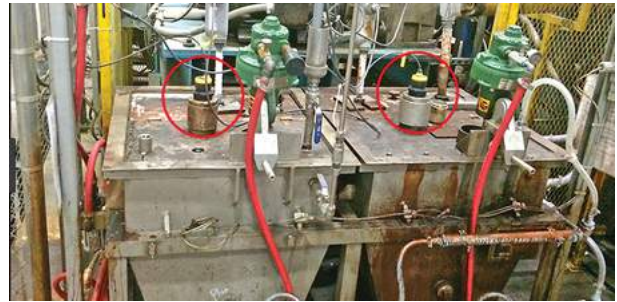
Question	Response	Details
Hazard & Operability Analysis (HAZOP)		
Node 1		
Node	Batch mixer	
Guide Word	No or not	
Element	RO water	
Deviation	No RO water flow	
Possible Causes	Centrifugal pump loses priming or valve closed totally	
Consequences	Resulting in highly concentrated solution	
Safeguards	Proper monitoring of the centrifugal pump (hydraulic pressure)	
Comments	Hydraulic pressure gauge should be reviewed and maintained on a regular basis.	
Photo of identified hazard or opportunity for improvement		
		
Appendix 1		
Node 2		
Node	Batch mixer	
Guide Word	More	
Element	RO Water	
Deviation	More RO water flow than intended	
Possible Causes	Water passes through the valve even if it's closed	
Consequences	Overflow of the batch mixer	
Safeguards	Person assigned to monitor batch mixer content	

Question	Response	Details	
Comments	A level indicator needs to be installed for an automatic, accurate reading of the levels.		
Photo of identified hazard or opportunity for improvement  <p data-bbox="140 573 256 600">Appendix 2</p>			
Name and Signature of HAZOP Team Lead	Serrah Engel	09 Jan 2019 01:59 PM	

Media



Appendix 1



Appendix 2