



HAZOP Template

Zoraya Chemical Mixing Plant / Serrah Engel / 26 Apr 2023

Complete

Score	0 / 0 (0%)	Flagged items	0	Actions	0
Client / Site	Zoraya Chemical Mixing Plant				
Location	Atlanta, GA				
Conducted on	26 Apr 2023 12:30 PST				
Prepared by	Serrah Engel				

Audit

Hazard & Operability Analysis (HAZOP)

Node

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



Photo 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

Comments

A level indicator needs to be installed for an automatic, accurate reading of the levels.

Photo of identified hazard or opportunity for improvement



Photo 2

Name and Signature of HAZOP Team Lead



Serrah Engel
26 Apr 2023 12:45 PST

Media summary

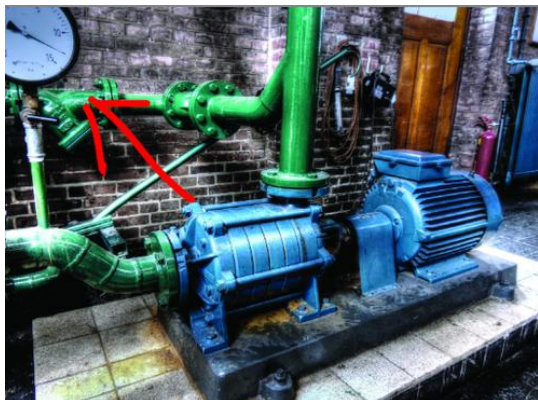


Photo 1



Photo 2