

IMPROVING TURNAROUND SAFTY

TURNAROUND (TƏRN-Ə-RAUND):

A planned production break to inspect, test, repair, or upgrade equipment in order to **MAINTAIN SAFE, EFFICIENT OPERATION**.



Turnarounds are a big event, not an everyday occurrence. They are *EXPENSIVE*, *COMPLEX*, *DISRUPTIVE*, and *POTENTIALLY MORE HAZARDOUS* than regular plant operations.

NOBODY WANTS TO GET HURT



Workers are up to 50x more likely to have a major accident during startup, shutdown, or maintenance mode.



of major accidents occur during non-routine work.

TURNAROUNDS REQUIRE A SPECIAL KIND OF VIGILENCE

BEFORE SHUTDOWN

- Do you know who is responsible for executing the safety program?
- Is there appropriate fall protection equipment?
- Is there a sufficient quantity of fall protection PPE for the entire workforce?
- Has the PPE been tested and repaired before use?
- Has every worker been properly trained on care and use of the PPE?

DURING SHUTDOWN

- Is there open and ongoing communication?
- Are standards being maintained?
- Have new contractors been paired with experienced employee-mentors who have both equipment and plant expertise?
- Do workers understand the importance of reporting all safety incidents and close calls?

TOP 3 REASONS
TURNAROUNDS MAY
INCREASE WORKER
INJURIES FROM FALLS



FAST PACE



UNFAMILIAR AND EXTENDED WORKFORCE



NON-ROUTINE NATURE

Implement safety-related best practices to bring the plant back online swiftly

COMMUNICATE EARLY & OFTEN

- Orientation
- Plant familiarization
- Equipment training
- Expectations and outcomes
- Safety training

INVOLVE ALL PERSONNEL

- Develop an organization chart
- Use a checklist for steps and tasks
- Pair new contractors with plant employees

PREPARE & TRAIN

- Inspect gas detectors
- Inspect breathing apparatus
- Inventory fall protection equipment
- Train, train, train PPE users

TURNAROUND: PPE ESSENTIALS

FRICTIONLESS BREAKING



Latchways® Sealed Self-Retracting Lifeline

RAPID RESPONSE



ALTAIR® 4XR Multigas Detector

REKNOWNED PROTECTION



V-Gard® Hard Hat

HANDS-FREE ATTACHMENT



Latchways® Vertical Lifeline Systems

ALL-DAY COMFORT

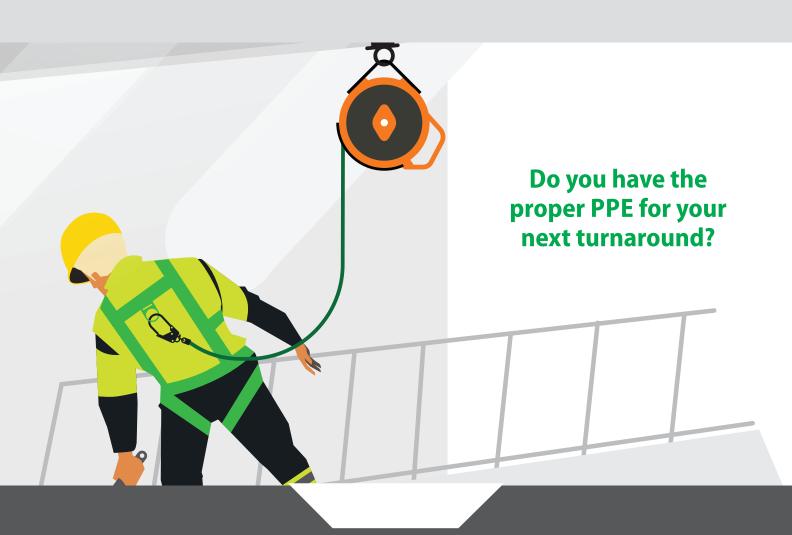


V-FLEX™ Safety Harness

BREATHE EASY



G1 Industrial SCBA



Find out how MSA can help.

Statistics source: http://www.process-improvement-institute.com/consulting-services/pha-of-non-normal-operating-modes/

