**IMPROVING TURNAROUND SAFETY**

**TURNAROUND (TÜRN-ə-ROUND):**
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. **70%** of major accidents occur during non-routine work.

**TOP 3 REASONS TURNAROUNDS MAY INCREASE WORKER INJURIES FROM FALLS**

1. **FAST PACE**
2. **UNFAMILIAR AND EXTENDED WORKFORCE**
3. **NON-Routine Nature**

**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?

**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

**WE KNOW WHAT’S AT STAKE.**
Do you have the proper PPE for your next turnaround?

Find out how MSA can help.
MSAsafety.com/applications/turnarounds.