

# MIRA 2023 Loss Prevention Controls

Risk Engineering Services November 2023

#### Property protection and safety go hand in hand

A property protection focus for each month

- Fire protection golden rules (3)
- Human element factors (6)
- Focus areas to keep the business running (3)



### Golden rules of fire protection

Adequate

Available



Valves open Automatic mode Powered Not impaired

Reliable



Appropriate design code Change management Laboratory testing



Pump tests Valve inspections System maintenance Clearance of alarms

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# 6 focus areas – Human element factors

#### Hot Work



2. Risk Management -HS&E and property loss scenarios

Housekeeping

-Flammables -Spill control

# 6 focus areas – Human element factors

Training

-On-going -Key process risk -Fire brigade -Procedures 5. Contractor management

-Familiarity and experience with site risks -Vetted Management of change -Established program

#### Keeping the business running

#### Inspection

Bottlenecks

Structural integrity

Frequency

Hard to get to areas

#### Maintenance

**Reliability centered** 

Adapted to current operation conditions

CMMS embedded (structural integrity)

#### **Business Continuity**

Bottlenecks

Scenarios developed

Tested plan

**Critical spares** 



#### Focus Areas

- 1. Available
- 2. Reliable
  - 3. Adequate
  - 4. Hot work
  - 5. Risk management
  - 6. Housekeeping
  - 7. Training
  - 8. Contractor management
  - 9. Management of change
  - 10.Inspection
  - 11.Maintenance
  - 12.Business continuity



Element

Human

Integrity

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