

Operational Resilience Plan Template

Complete

Score	1 / 4 (25%)	Flagged items	4	Actions	3
Operational Re	esilience Inspec	tor			Adolfo Eichmann
Site of Inspection					
Amarillo, Texas S	ite				
Date of Inspection					2 Sep 2024 13:00 PST

Flagged items & Actions	4 flagged, 3 actions
Flagged items	4 flagged, 0 actions
Risk Evaluation / Risk Assessment / Risk Assessment 1	
Likelihood	Medium
Risk Evaluation / Risk Assessment / Risk Assessment 1	
Potential Impact	High
Critical Business Functions / Business Function / Business Function 1	
Priority Level	High
Critical Business Functions / Business Function / Business Function 2	
Priority Level	High
Other actions	3 actions

Project and Actions / Projects / Projects 1

Responsible Person/s

Engineering Team

To do | Assignee: Engineering Team | Priority: High | Due: 30 Sep 2024 12:00 PST | Created by: SafetyCulture Staff

Installing IoT Sensors and Data Analytics

Hi Engineering Team, kindly ensure full implementation by September 30.

Project and Actions / Projects / Projects 2

Responsible Person/s

Latte Norwich of Training Team

To do | Assignee: Latte Norwich | Priority: Medium | Due: 6 Sep 2024 14:00 PST | Created by: SafetyCulture Staff

Send me copies of the updated training modules.

Hi Latte, The new training program will be implemented on October 1. Please end me copies of the updated training modules by end of week for review.

Communication Protocols

Responsible Personnel

Marketing and Communications Team

To do | Assignee: SafetyCulture Staff | Priority: Medium | Due: 11 Sep 2024 12:00 PST | Created by: SafetyCulture Staff

Review communication plans

Hi Marketing and Communication Team Lead, Kindly review the attached documents containing the details on what we can share during emergencies. I'm looking forward to hearing your insights into these on our meeting next week. Thanks

Risk Evaluation	2 flagged, 1 / 2 (50%)
Risk Assessment	2 flagged, 1 / 2 (50%)
Risk Assessment 1	2 flagged, 1 / 2 (50%)

Identify Risk

The primary risk identified in cadmium manufacturing is equipment failure, particularly of machinery critical to production, such as smelting, refining, and handling equipment. Given the hazardous nature of cadmium, equipment failure could lead to operational shutdowns, financial loss, environmental contamination, and severe health risks due to potential cadmium exposure

Likelihood	Medium
Potential Impact	High

Critical Business Functions	2 flagged, 0 / 2 (0%)
Business Function	2 flagged, 0 / 2 (0%)
Business Function 1	1 flagged, 0 / 1 (0%)
Function Name	
Smelting Operations	
Department	
Production	
Priority Level	High
Allowable Downtime (Calendar Days)	1
Allowable Downtime (Calendar Days) Business Function 2	1 1 flagged, 0 / 1 (0%)
·	
Business Function 2	·
Business Function 2 Function Name	·
Business Function 2 Function Name Refining and Purification	·
Business Function 2 Function Name Refining and Purification Department	·

Key Performance Indicators (KPI)	
KPI	
KPI 1	
KPI Description	
Equipment downtime	
Target Value	
Less than 1% monthly	
Frequency of Measurement	Monthly
Date of Next Measurement	1 Oct 2024 00:00 PST
KPI 2	
KPI Description	
Percentage of preventive maintenance tasks completed	
Target Value	
100%	
Frequency of Measurement	Weekly
Date of Next Measurement	9 Sep 2024 00:00 PST

Project and Actions	2 actions
Projects	2 actions
Projects 1	1 action

Project Name

Predictive Maintenance Implementation

Project Description

Integrating IoT-based sensors and data analytics to monitor equipment health in real time.

Responsible Person/s

Engineering Team

To do | Assignee: Engineering Team | Priority: High | Due: 30 Sep 2024 12:00 PST | Created by: SafetyCulture Staff

Installing IoT Sensors and Data Analytics

Hi Engineering Team, kindly ensure full implementation by September 30.

Target Completion Date

30 Sep 2024 12:00 PST

Projects 2 1 action

Project Name

Employee Safety Training

Project Description

Continuous safety training programs to ensure workers are equipped to handle equipment failure safely.

Responsible Person/s

Latte Norwich of Training Team

To do | Assignee: Latte Norwich | Priority: Medium | Due: 6 Sep 2024 14:00 PST | Created by: SafetyCulture Staff

Send me copies of the updated training modules.

Hi Latte, The new training program will be implemented on October 1. Please end me copies of the updated training modules by end of week for review.

Target Completion Date

6 Sep 2024 12:00 PST

Technology Integration

Technology Solutions

Automated Maintenance Systems: Implement automated systems that schedule and perform certain maintenance tasks on equipment. These systems can handle lubrication, cleaning, and routine checks, reducing the need for manual intervention and human error.

Monitoring Systems

IoT-Based Sensors: Install IoT sensors on critical equipment to monitor temperature, vibration, and wear. This allows real-time tracking of machine health and predictive maintenance



Photo 1

Internal Communication Strategy

Communication Channels: Use instant messaging platforms (e.g., Microsoft Teams, Slack) and internal communication systems (e.g., intranet) for rapid information sharing among employees in case of equipment failure.

Emergency Alerts: Implement an automated alert system that sends SMS or email notifications to the designated personnel responsible for addressing the failure.

Regular Meetings: Weekly operational review meetings to assess risks, equipment health, and contingency planning.

See attached file for the detailed plan.

Full Internal Communcation Plan.pdf

External Communication Plan

Supplier Contact: Establish direct communication lines with suppliers for quick access to spare parts or replacement machinery in case of failures.

Stakeholder Updates: Maintain open communication with stakeholders (clients, suppliers, regulatory bodies) in case of a prolonged disruption due to equipment failure.

Media Management: Prepare a media statement and a designated media contact to address any public concerns, especially if there is an environmental or health hazard involved.

See attached file for the detailed plan.

Full External Internal Communcation Plan.pdf

Responsible Personnel

Marketing and Communications Team

To do | Assignee: SafetyCulture Staff | Priority: Medium | Due: 11 Sep 2024 12:00 PST | Created by: SafetyCulture Staff

Review communication plans

Hi Marketing and Communication Team Lead, Kindly review the attached documents containing the details on what we can share during emergencies. I'm looking forward to hearing your insights into these on our meeting next week. Thanks

Operational Resiliency Testing

Most Recent Operational Resilience Test

30 Aug 2024 14:00 PST

Test Outcomes

Recent tests indicated a 15-minute delay in communication to the maintenance team, suggesting improvements in the alert system are necessary.

Improvement Actions

Enhance the speed of internal communication by integrating a new alert system with direct escalation protocols.

Next Operational Resilience Test Schedule

4 Nov 2024 09:30 PST

Continuous Improvement

Assigned Reviewer/s

Olga Rempel

Review Schedule 4 Nov 2024 09:00 PST

Feedback Mechanism from Employees

Feedback Channels: Anonymous feedback form and monthly safety meetings to gather employee insights on operational risks, equipment issues, and training needs.

Employee Involvement: Encourage workers to report near-misses or concerns about equipment health directly to the safety officer or their supervisors.

Actionable Feedback: Prioritize feedback from employees operating machinery daily for integration into future contingency planning and equipment upgrades.

Sign-off

Operational Resilience Plan Reviewed By

Larry Daugherty

Larry Daugherty 8 Oct 2024 14:30 PST

Designation

Chief Operating Officer

Reviewer's Comment/Feedback

Hi Adolfo, thank you for working on this. See attached file for feedback. Thanks.

Operational Resilience Plan Feedback.pdf

Date Reviewed 8 Oct 2024 14:30 PST

Media summary



Photo 1

File summary

Full Internal Communcation Plan.pdf
Full External Internal Communcation Plan.pdf
Operational Resilience Plan Feedback.pdf