## SOUTHGATE TERMINAL

## ## Port Operations Security Documentation

## **Container Operations Emergency Procedures**

#### **Document Information**

Document Type: Emergency Operations Procedure Intended Users: Operations Team, Technical Team, Crane Operators Usage Context: During container system failures, misrouting incidents, or crane operation emergencies Related Scenarios: Container misrouting, gantry control failures, CCTV blackouts affecting container operations

#### **Purpose**

This procedure provides specific guidance for managing container operations during system failures, including container misrouting correction, manual container tracking, and safe crane operations during technical emergencies.

#### When to Use This Procedure

- Container misrouting incidents (containers to wrong berths)
- · Gantry control system failures requiring manual operation
- CCTV blackouts affecting container operation safety
- · Container management system failures or unauthorised changes
- · Crane synchronisation errors or safety concerns

#### Container Misrouting Emergency Response

Immediate Response (0-5 minutes)

Step 1: Misrouting Detection and Verification

Stop Current Operations: Immediately halt container movement if misrout
ing detected
Verify Misrouting: Confirm container ID, intended destination, and actua
location
Safety Assessment: Check if misplaced container creates immediate
safety hazard
Document Incident: Record container ID, intended berth, actual berth
time discovered

# Container Misrouting Report Template: CONTAINER MISROUTING INCIDENT Time Discovered: [Timestamp] Container ID: [Container Number] Intended Berth: [Original Destination] Actual Location: [Current Location] Discovered By: [Personnel Name/Position] Immediate Hazard: [Yes/No - Description if yes] Step 2: Immediate Safety Measures ☐ Crane Hold: Stop all crane operations affecting misrouted container ☐ Area Isolation: Secure area around misrouted container if safety concern ☐ Personnel Notification: Alert all personnel in affected berth areas ☐ Traffic Control: Stop vehicle traffic near misrouted container if necessary Container Correction Process (5-30 minutes) Assessment and Planning Phase 1. Container Assessment: ☐ Container type and contents ☐ Current position and accessibility ☐ Required lifting equipment ☐ Destination berth availability ☐ Route planning for correction move 2. Resource Requirements: ☐ Crane Availability: Verify appropriate crane capacity and availability ☐ Personnel: Crane operator, spotter, traffic coordinator ☐ Equipment: Spreaders, lifting gear appropriate for container type ☐ Route Clearance: Clear path from current location to correct berth 3. Safety Considerations: ☐ Load Verification: Confirm container weight and centre of gravity ☐ Weather Conditions: Wind speed and direction for safe lifting ☐ Visual Monitoring: Spotter assignments for crane operation ☐ Emergency Procedures: Ensure emergency stop procedures ready Container Correction Execution 1. Pre-Move Safety Brief: ☐ Brief all personnel on correction procedure ☐ Assign spotter positions and communication methods ☐ Verify emergency stop procedures

☐ Confirm crane operator competency for specific move			
2. Correction Move Procedure:			
<ul> <li>□ Container Securing: Ensure container properly secured before lift</li> <li>□ Lift Execution: Follow standard lifting procedures with enhanced safety</li> <li>□ Transport Route: Use predetermined safe route to correct berth</li> <li>□ Placement Verification: Confirm correct berth placement and securing</li> </ul>			
3. Post-Move Verification:			
<ul> <li>□ Location Confirmation: Verify container in correct berth position</li> <li>□ System Update: Update container management system if operational</li> <li>□ Documentation: Complete correction documentation</li> <li>□ Safety Clearance: All-clear for normal operations resume</li> </ul>			
Gantry Control System Failure Response			
Immediate Actions (0-5 minutes)			
System Failure Assessment			
<ul> <li>□ Failure Scope: Determine which gantry systems affected</li> <li>□ Current Operations: Identify containers currently being moved</li> <li>□ Safety Status: Assess immediate danger to personnel or equipment</li> <li>□ Manual Override: Determine if manual override required and feasible</li> </ul>			
Emergency Container Securing			
In-Transit Containers:			
<ul> <li>☐ Immediate Stop: Use emergency stop if container in motion</li> <li>☐ Secure Position: Lower container to safe position if possible</li> <li>☐ Area Clearance: Clear personnel from beneath suspended containers</li> <li>☐ Support Measures: Deploy additional securing if container unstable</li> </ul>			
2. Planned Operations:			
<ul> <li>☐ Hold All Moves: Stop all planned container movements</li> <li>☐ Secure Equipment: Ensure all lifting equipment in safe position</li> <li>☐ Personnel Accountability: Account for all personnel in gantry areas</li> <li>☐ Alternative Routing: Plan alternative operations if feasible</li> </ul>			
Manual Override Authorization Process			

Override Readiness Assessment

1. Personnel Competency Verification:

<ul> <li>□ Operator Qualification: Verify crane operator manual operation training</li> <li>□ Recent Experience: Confirm recent manual operation experience</li> <li>□ Physical Condition: Assess operator fitness for extended manual operation</li> </ul>
☐ Spotter Availability: Ensure qualified spotters available
2. Equipment Safety Check:
<ul> <li>□ Manual Controls: Verify manual control system functionality</li> <li>□ Safety Systems: Confirm emergency stop and safety systems operational</li> <li>□ Communication: Test crane operator to spotter communication</li> <li>□ Backup Power: Verify backup power systems if required</li> </ul>
3. Environmental Assessment:
<ul> <li>□ Weather Conditions: Assess wind, visibility, precipitation</li> <li>□ Lighting: Ensure adequate lighting for manual operations</li> <li>□ Area Conditions: Check for obstacles or hazards in operating area</li> <li>□ Emergency Access: Verify emergency vehicle access maintained</li> </ul>
Manual Override Authorization Authority Required: Operations Supervisor + Safety Officer Documentation Required: Manual Override Authorization Form
Authorization Checklist: - [] All safety systems verified operational - [] Qualified personnel assigned and briefed - [] Environmental conditions acceptable - [] Emergency procedures confirmed - [] Communication systems tested - [] Maximum operation duration established
Manual Gantry Operation Procedures
Enhanced Safety Protocols
1. Continuous Communication:
<ul> <li>□ Radio Check: Test radio communication before each move</li> <li>□ Visual Contact: Maintain visual contact between operator and spotter</li> <li>□ Standard Signals: Use standardized hand signals as backup</li> <li>□ Emergency Signals: Ensure all personnel know emergency stop signals</li> </ul>
2. Reduced Operation Parameters:
<ul> <li>□ Speed Reduction: Operate at 50% normal speed maximum</li> <li>□ Load Limits: Reduce maximum load capacity by 20%</li> <li>□ Wind Limits: Stop operations if wind exceeds 25 mph</li> <li>□ Visibility Requirements: Stop operations if visibility below 100 meters</li> </ul>
3. Enhanced Monitoring:
<ul> <li>□ Additional Spotters: Deploy extra spotters for complex moves</li> <li>□ Ground Personnel: Ensure adequate ground personnel for coordination</li> <li>□ Equipment Monitoring: Continuous monitoring of crane performance</li> </ul>

□ Safety Officer Presence: Safety officer on-site during manual operations
CCTV Blackout Container Operations
Visual Monitoring Replacement
Spotter Deployment Strategy
1. Critical Position Coverage:
<ul> <li>□ Crane Operator Blind Spots: Position spotters at operator blind spots</li> <li>□ Ground Movement Areas: Cover areas where personnel/vehicles move</li> <li>□ Container Landing Zones: Monitor container placement areas</li> <li>□ Traffic Intersection Points: Cover vehicle and equipment intersections</li> </ul>
2. Spotter Assignment Protocol:
<ul> <li>□ Primary Spotter: Assigned to specific crane for entire operation</li> <li>□ Roving Spotter: Covers multiple areas during different operations</li> <li>□ Traffic Spotter: Dedicated to vehicle and equipment movement</li> <li>□ Safety Spotter: Focused on personnel safety and emergency response</li> </ul>
Enhanced Communication Procedures
1. Communication Hierarchy:
<ul> <li>Primary: Radio communication on designated channel</li> <li>Secondary: Hand signals and visual signals</li> <li>Emergency: Air horn, whistle, or emergency signals</li> </ul>
2. Standard Communication Protocol:
<ul> <li>☐ Move Authorization: "Clear to move" from primary spotter</li> <li>☐ Progress Updates: Regular position updates during move</li> <li>☐ Hazard Alerts: Immediate communication of any hazards</li> <li>☐ Completion Confirmation: "Move complete, all clear" signal</li> </ul>
Reduced Capacity Operations
Container Operation Modifications
1. Operational Restrictions:
<ul> <li>□ Single Container Moves: Only one container move at a time</li> <li>□ Reduced Speed: 30% normal speed during CCTV blackout</li> <li>□ Enhanced Verification: Double-check all container IDs and destinations</li> <li>□ Extended Safety Zones: Increase safety zones around operations</li> </ul>
2. Additional Verification Steps:

<ul> <li>□ Manual Container Check: Physical verification of container ID</li> <li>□ Destination Confirmation: Multiple verification of destination berth</li> <li>□ Route Verification: Walk route before container movement</li> <li>□ Personnel Clearance: Physical verification area clear before move</li> </ul>
Container System Failure Recovery
System Restoration Verification
Container Tracking System Recovery
Data Integrity Verification:
<ul> <li>□ Container Location Audit: Physical verification of all container locations</li> <li>□ Database Reconciliation: Compare physical locations with system records</li> </ul>
☐ Discrepancy Resolution: Investigate and resolve any location discrepancies
☐ System Update: Update system records to match physical reality
System Functionality Testing:
☐ Test Container Tracking: Verify system tracks container movements accurately
<ul> <li>Test Crane Integration: Confirm crane systems integrate properly</li> <li>Test Safety Systems: Verify safety interlocks and emergency stops</li> <li>Test Communication: Confirm system communication with all components</li> </ul>
Return to Normal Operations
Gradual Operation Resumption:
<ul> <li>□ Single Move Test: Test system with single container move</li> <li>□ Monitoring Period: Enhanced monitoring for first hour of operations</li> <li>□ Performance Verification: Verify system performance meets standards</li> <li>□ Full Operations: Return to normal operational capacity</li> </ul>
2. Ongoing Monitoring:
<ul> <li>□ System Performance: Monitor for any recurring issues</li> <li>□ Error Logging: Log any system errors or anomalies</li> <li>□ Personnel Feedback: Gather feedback from operators on system performance</li> <li>□ Continuous Assessment: Regular assessment of system religibility</li> </ul>
☐ Continuous Assessment: Regular assessment of system reliability

## **Emergency Contact Information**

**Container Operations Emergency Contacts** 

Operations Supervisor: [Phone number] Crane Operations Manager: [Phone number] Safety Officer: [Phone number] Technical Support: [Phone number]

**Emergency Services: 911** 

**Equipment Emergency Contacts** 

Crane Maintenance: [24-hour number] Container System Support: [Phone number] Gantry Control Vendor: [Emergency support number] Backup

Equipment Rental: [Phone number]

**Documentation Requirements** 

Incident Documentation

Required for All Container Incidents: - Container Misrouting Report - Manual Override Authorization (if applicable) - Safety Assessment Documentation - Corrective Action Documentation - Personnel Involved Record

Follow-up Documentation

Within 24 Hours: - Complete incident analysis - System restoration verification - Lessons learned documentation - Process improvement recommendations - Training need assessment

Success Criteria

- Safe and timely correction of container misrouting incidents
- · Effective manual operation during system failures
- · Maintained personnel safety during emergency operations
- · Successful transition back to normal operations
- · Comprehensive documentation for continuous improvement

Related Documents

- · Manual Override Authorization Process
- CCTV Blackout Response SOP
- · Safety Risk Assessment Template

- Multi-System Failure Coordination GuideTechnical Containment Guide