

Scope of Work for ERT Operations within 15Mtpa Direct Reduced Iron (DSO) Operation:

1. Overview:

The scope of work encompasses the establishment and maintenance of a comprehensive fire safety program tailored specifically to a Direct Reduced Iron (DSO) operation and concentrator of 15MTPA. Implementation of these measures will significantly reduce the risk of fire incidents and mitigate potential losses associated with such events with all ArcelorMittal Liberia Operations (Nimba & Buchana) respectively.

2. Objectives:

To minimize the risk of fire incidents within ArcelorMittal current operation and current erection of the concentrator, the system is to ensure prompt detection and effective suppression of any fire that may occur. Safeguard personnel, equipment, and property against fire hazards, more importantly to comply with relevant National and International regulatory requirements and industry best practices.

3. Key Components for ERT:

- a. Fire Prevention program & system:
 - Implementing rigorous housekeeping practices to minimize combustible materials.
 - Conduct inspections of equipment and machinery for potential fire hazards.
 - Enforce strict protocols for hot work operations, including permits and fire sensors, blankets and fire balls.
- b. Fire Detection equipment:
 - Installation and maintenance of a comprehensive fire alarm system covering all areas of the facility (Concentrator, Port, Rail and equipment, etc).
 - Integration of smoke and heat detectors, flame sensors, and manual pull stations.
 - Implementation of an automated fire detection system linked to central monitoring stations for immediate response.
- c. Fire Suppression system:
 - Deployment of various fire suppression systems tailored to specific hazards, including water-based sprinkler systems, foam suppression, and dry chemical systems.



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- Establishment of fire hydrant systems with adequate water supply and distribution throughout the plant.

- Provision of portable fire extinguishers strategically located in accessible areas.

d. Emergency Response:

- Development and regular review of emergency response plans, including evacuation procedures and assembly points.

- Conducting regular drills and training sessions to ensure swift and effective response to fire emergencies.

- Coordination with local fire departments for mutual aid and emergency response exercises, where appropriate.

4. Trainings:

- Fire Safety Awareness Training for all personnel, including contractors and visitors.

- Fire Extinguisher Operation and Handling Training.

- Emergency Evacuation Drills and Procedures Training.

- Construction of Fire drill sites

- Hot Work Safety Training for personnel involved in welding, cutting, and other hot work operations.

- Incident Command System (ICS) Training for designated emergency response personnel.

- Confined space training for personnel working beneath earth, including rescue procedure training

5. Equipment systems & tools:

- Fire Alarm System with smoke and heat detectors, manual pull stations, and alarm notification devices.

- Water-based Sprinkler Systems with pumps, piping, and sprinkler heads.

- Foam Suppression Systems with foam concentrate, proportioning equipment, and discharge devices.

- Dry Chemical Fire Suppression Systems for specialized hazards.

- Fire Hydrant Systems with hydrants, valves, and water distribution network.



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- Portable Fire Extinguishers suitable for various classes of fires.
- Personal Protective Equipment (PPE) including fire-resistant clothing, helmets, gloves, and respiratory protection.
- Firefighting Vehicles equipped with water tanks, pumps, hoses, and firefighting tools.

6. Fire Suppression and Sprinkling Systems:

- Installation of automatic sprinkler systems in critical areas such as material storage, processing equipment, and conveyor systems.
- Incorporation of foam suppression systems in areas where flammable liquids or chemicals are handled.
- Regular inspection, testing, and maintenance of all fire suppression and sprinkling systems to ensure optimal functionality.
- Integration of fire suppression systems with the facility's central control and monitoring system for remote activation and monitoring.

7. Budget for ERT Operation

- Equipment Procurement
- Installation and Setup
- Training and Education
- Maintenance and Testing
- Emergency Response Preparedness
- Compliance and Regulatory Requirements
- Contingency Funds
- Administrative Costs (manpower, salaries, etc).

8. Reporting Matrix & System

- Incident Reporting Procedures
- Documentation Requirements during and incident and drill procedure
- Investigation Procedures