



ENVIRONMENT, HEALTH AND SAFETY MANAGEMENT STANDARD

Applies To :

This document applies to all GTG operations.

Introduction and Background or Purpose :

The GTG Environment, Health and Safety (EHS) Management Standard (EHS-MS) provides the basis to address EHS risks and compliance obligations applicable to all workers and their GTG operations.

GTG locations and workers must understand, manage, and mitigate their EHS risks and comply with all applicable GTG and government requirements. The EHS-MS was developed to provide a standard system to manage these requirements. While the EHS-MS covers many EHS requirements applicable to GTG, it is not inclusive of all risks, and is not a comprehensive representation of or replacement for applicable EHS government requirements.

Requirements or Expectations :

All locations must comply with the requirements of this EHS-MS and the additional detailed requirements set forth in the Compliance & Audit Management & Metrics System (CAMMS)

Overall responsibility for compliance with this document is assigned to the Enterprise Operations and Research & Development organizations, and is actively managed by the Corporate Environment, Health, Safety & Product Stewardship Group (EHS&PS).

Self-Assessment

All manufacturing, research & development, pilot plant, warehouse, and distribution center locations must maintain a self-assessment of the elements that apply to their operations and workers. Detailed requirements for implementing the EHS-MS are documented in CAMMS. Appropriate subject matter experts must be assigned to complete each self-assessment element applicable to the site. The self-assessment should be maintained throughout the year and must be approved annually by the Location Manager.

Annual Action Plan

An action plan based on a prioritized list of improvement opportunities must be prepared and annually updated. The plan must include objectives and action steps for each applicable EHS improvement opportunity, identify responsibility and a time frame for completion, and a method to communicate the plan to all impacted personnel.

Compliance with Government Requirements

All locations must comply with all applicable government requirements. Knowledge of applicable government requirements is critical for compliance with EHS practices.

EHS Management Standard Elements

CORE EHS Elements

- EHS Management Systems
- Management of Change
- Training Systems
- Emergency Preparedness and Crisis Management
- Incident Reporting and Investigation
- Contractor EHS Management
- Hazard Recognition and Risk Assessment





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Environmental Elements

- Environmental Targets
- Air Quality Management
- Air Emission Reduction Program
- Air Emission Control Equipment Operation and Maintenance
- Thermal Oxidizer Optimization
- Refrigerant Management
- GHG Management in Operations
- Wastewater Management
- Wastewater Emission Control Equipment Operation and Maintenance
- Stormwater Management
- Waste Management
- Asbestos Management
- Aboveground Storage Tank Inspection and Containment
- Underground Storage Tank and Piping
- Remediation
- Sewer Management
- Spill Prevention and Response
- Waste Sustainability
- Water Sustainability

Safety and Health Elements

- Ergonomics
- Hazard Communication
- Respirators
- Personal Protective Equipment
- Chemical and Thermal Exposure Assessment and Management
- Noise Control and Hearing Conservation
- Ventilation for Contaminant Control
- Medical Surveillance and Health Status Evaluations
- Biosafety
- Medical Records and Confidentiality
- Clinical Health Services
- Return to Work Following Illness or Injury
- Health, Safety and Well-Being
- PHM Program and Applicability
- PHM Training
- Mechanical Integrity
- Process Safety Information
- Operating Procedures
- Process Hazard Analysis
- Ionizing Radiation
- Non-Ionizing Radiation
- Fire Protection and Prevention
- Combustible Particulate Solids
- Flammable Liquid Handling and Storage
- Powered Industrial Vehicles
- Hoist Systems for Overhead Material Handling
- Work at Height





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- Confined Space Entry
- Lock Out/Tag Out
- Vehicle Safety
- Electrical Safety
- Machine Guarding
- Static Management

Additional Elements

For purposes of this document, the following definitions are used:

Location : Any GTG manufacturing site; distribution center; warehouse; laboratory; pilot plant; and administration, engineering, sales office or other support offices.

Location Manager : Any person who oversees the activities of a location, such as a plant manager at a production location, or a Technical Director at an R&D location.

Requirement : An objective that must be met; requirements come from governmental regulation and GTG policies and standards.

Element : A component of the EHS Management Standard

Worker : GTG employees and non-employee resources (contingent workers).

