TABLE OF CONTENTS

1.0 PURPOSE 1

2.0 SCOPE 1

3.0 reference documents 1

4.0 Definitions 1

5.0 RequirementS 2

5.1 Operational Planning and Control 2

5.1.1. GENERAL………………………………………………………………………………………………… …..2

5.1.2 MANAGEMENT OF CHANGE…………………………………………………………………………… ….2

5.1.3 PROCUREMENT……………………………………………………………………………………………….2

5.1.4 CONTRACTORS…………………………………………………………………………………………… …3

5.1.5 OUTSOURCING………………………………………………………………………………………………..3

5.2 Emergency Preparedness and Response 3

6.0 STANDARD Approval 4

7.0 Revision history 4

# PURPOSE

This standard is one of five ESH standards that constitute the Environmental and Occupational Safety & Health Management System (ESH MS) for TI’s manufacturing sites.

# SCOPE

The provisions of this standard apply to all TI employees, suppliers, vendors, and visitors at TI manufacturing sites worldwide.

# reference documents

# TI SP&P 04-04-01 Environmental, Safety and Health

# TI SP&P 04-07-01 Records Retention

# ISO14001: 2015 International Standard on Environmental Management System

# ISO45001:2018 International Standard on Occupational Health and Safety Management System

# TI ESH Standard 20.10 ESH Roles & Responsibilities

# Definitions

# [TI ESH Standards Glossary of Definitions](https://sps01.itg.ti.com/sites/wwf/esh/standards/default.aspx)

# ISO 14001:2015 (Terms)

# ISO 45001:2018 (Terms)

# RequirementS

# Operational Planning and Control

# General

#### The site shall plan, establish, implement, control and maintain the processes needed to meet ESH MS requirements, and implement any actions identified to assess and address its Environmental aspects and OS&H hazards and their related Risks and Opportunities, as well as actions related to the site’s ESH Objectives and Targets by:

#### Establishing operating criteria for processes;

#### Implementing control of the processes in accordance with the criteria;

#### Maintaining and retaining documented information to the extent necessary to have confidence that the processes have been carried out as planned; and

#### Adapting work to workers.

#### Consistent with a life cycle perspective, the site shall establish controls as appropriate to ensure that its environmental requirements are addressed in the design and development process for the product or service, considering each life cycle stage.

#### At multi-employer sites, the site shall coordinate the relevant parts of the ESH MS with the other organizations.

#### The site shall eliminate hazards and reduce risk by applying appropriate use of the hierarchy of controls (e.g. elimination, substitution, engineering controls, administrative controls, PPE).

#### Management of Change

#### The site shall establish processes for the implementation and control of planned temporary and permanent changes that may impact ESH performance, including:

#### New products, services or changes to existing products, services and processes (such as workplace locations and surroundings, work organizations, work conditions, equipment, and the workforce);

#### Changes to legal and other requirements;

#### Changes in knowledge or information about hazards and ESH risks; and

#### Developments in knowledge and technology.

#### The site shall review the consequences of unintended changes, (e.g., those resulting from incidents or events), taking action to mitigate any adverse effects, as necessary.

#### Procurement

#### General

#### The site shall establish, implement and maintain a process(es) to control the procurement of products and services in order to ensure their conformity to its ESH MS. These processes shall be consistent with a life cycle perspective and include the following:

#### Communicate relevant ESH requirement(s) to external providers, including contractors;

#### Determine environmental requirement(s) for the procurement of products and services, as appropriate;

#### Consider the need to provide information about potential significant environmental impacts associated with the transportation or delivery, use, end-of-life treatment, and final disposal of the products and services; and

#### Maintain documented information to the extent necessary to have confidence that the processes have been carried out as planned.

#### Contractors

#### The site shall coordinate its procurement process with contractors to identify hazards and to assess and control ESH risks arising from:

#### The contractors’ activities and operations that impact the site;

#### The site’s activities and operations that impact contractors’ workers; and

#### The contractors’ activities and operations that impact other interested parties in the workplace.

#### The site shall ensure that the requirements of the ESH MS are met by contractors and their workers; and

#### The site’s procurement process shall define and apply ESH criteria for the selection of contractors.

#### Outsourcing

#### The site shall ensure that outsourced functions and processes are controlled, and that outsourcing arrangements are consistent with legal and other requirements and with achieving the intended outcomes of the ESH MS. The type and degree of control to be applied to these functions and processes shall be defined within the ESH MS.

# Emergency Preparedness and Response

#### The site shall establish, implement and maintain a process(es) needed to prepare for and respond to potential emergency situations including:

#### Establishing a planned response to emergency situations, including the provision of first aid and to prevent or mitigate adverse environmental impacts;

#### Providing training for the planned response;

#### Responding to actual emergency situations;

#### Periodically testing and exercising the planned response capability;

#### Evaluating performance and, as necessary, revising the planned response, including after testing and, in particular, after the occurrence of emergency situations;

#### Communicating and providing relevant information to all workers on their duties and responsibilities;

#### Communicating relevant information to contractors, visitors, emergency response services, government authorities and, as appropriate, the local community;

#### Taking into account the needs and capabilities of all relevant interested parties and ensuring their involvement, as appropriate, in the development of the planned response.

#### The site must maintain documented information to the extent necessary to have confidence that the processes are carried out as planned. Typical documentation includes the following:

#### Emergency plans;

#### Emergency response reports including after-incident assessments and follow-up actions;

#### Emergency drill records including follow-up actions; and

#### Records related to emergency response team including training, resources, etc.

## The TI Incident Command (IC) structure and process will be utilized at all locations for emergency situations.

#### 

# STANDARD Approval

This standard has been approved by Zane Broadhead, TI Vice President.

# Revision history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rev#** | **Date** | **Nature of Revision** | **Author/Editor** | **Approver** |
| A | 8/22/2017 | New Standard | Gilmore/Moore | ELC |
| B | 4/17/2019 | Periodic review and inclusion of ISO45001:2018 requirements. | Gilmore/Moore | ELC |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |