
HEALTH AND SAFETY PROGRAM 327 – Lightning Policy

1.0 PURPOSE

The following policy is intended to minimize personnel exposure to the hazards associated with lightning.

2.0 SCOPE

This policy applies to all Westlake employees and contract employees working at the Plaquemine, Louisiana facility. This includes operation and maintenance activities outside the fence line such as dock loading and unloading, grass cutting and construction activities.

3.0 DEFINITIONS

Exposed Elevated Structures – any structure above grade where there is no metal structure above personnel. Exposed elevated areas could include, but not limited to tops of structures (columns, vessels, tanks) with no overhead protection, on the roof of buildings, on the elevated exposed exterior area of a column and stairs on a tank/sphere.

Exposed Areas – locations where a person could have the potential to be exposed to the effects of lightning such as open fields, top elevation of structures and tops of storage tanks.

Protective Areas – covered structures such as pipe racks, grating or diamond plate decks and any buildings such as maintenance shops, operator shelters, work trailers or control rooms.

Essential Work – any work that is critical to the safe operation of the unit or facility as determined by management. This would include critical work that would ensure uninterrupted operations or startup/shutdown activities.

Lightning Notification – a notification sent to a select group when lightning is detected within 15 miles of the Plaquemine site

Lightning Alert – a notification sent to the Plaquemine site when lightning is detected within seven (7) miles of the Plaquemine site

All Clear – a notification sent to the site indicating no lightning strikes have been detected within seven (7) miles of Plaquemine site for thirty (30) minutes

Weather Service– third party weather service utilized to monitor lightning for the Plaquemine site and provide notifications for Lightning Alert levels.

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4.0 ROLES AND RESPONSIBILITIES

4.1 EHSS Department

- 4.1.1 Coordinate with weather service vendor to provide and update notification lists.
- 4.1.2 Train security personnel in their rolls associated with this policy.
- 4.1.3 Liaise between the weather service vendor and the Plaquemine Site for any issues or adjustments that may be necessary.
- 4.1.4 Provide training to all affected personnel on this policy
- 4.1.5 Develop messages for Lightning and All Clear Alerts
- 4.1.6 Train site on Lightning Policy

4.2 Weather Service Vendor

- 4.2.1 Make notification calls (automated) to the Security Center for Notification (15 miles) and Lightning Alert (7 miles) and All Clear.
- 4.2.2 Send out emails and texts directly to lists provided by EHSS Department for Notification Level and Lightning Alert level.
- 4.2.3 Send out emails and texts for “All Clear” to lists provided by EHSS Department.
- 4.2.4 Make modifications to the service (I.e. notification levels, notification lists) as directed by EHSS Department.

4.3 Security Center

- 4.3.1 Receive Notification Level (15 miles), Lightning Alert (7 miles) and All Clear calls from the weather service vendor.
- 4.3.2 Upon receiving the Lightning Alert notification they will:
 - 4.3.2.1 Notify the site via the plant radio system and site email.
- 4.3.3 Upon receiving notification call for “All Clear”, security personnel will notify the site via the plant radio system and site email.

4.4 Site Personnel

- 4.4.1 Receive training on the Lightning Policy
 - 4.4.4 Bring work to safe level and move to protective areas when required by this policy.

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5.0 POLICY

5.1 Alert Levels

5.1.1 Notification Level

5.1.1.1 When lightning is detected by the Weather Service within 15 miles of the site, an email and a text message notification will be sent out to the following:

5.1.1.1.1 Westlake Maintenance Manager

5.1.1.1.2 Westlake Maintenance Superintendents

5.1.1.1.3 Turner Site Manager

5.1.1.1.4 Turner Supervisors

5.1.1.1.5 Turner Safety

5.1.1.1.6 Shipping Supervisors

5.1.1.2 When lightning is detected by Impact Weather within 15 miles of the site an email notification will be sent to the following:

5.1.1.2.1 Manufacturing Managers

5.1.1.2.2 Production Unit Managers

5.1.1.1.3 Shift Supervisors

5.1.1.3 This notification is for information purposes only. No actions are required at this time.

5.1.2 Lightning Alert Level

5.1.2.1 When lightning has been detected by the Weather Service within seven (7) miles of the site, a Lightning Alert will be sent out utilizing the following:

5.1.2.1.1 DL Plaquemine Employees, DL Plaquemine Contractors (site email notification)

5.1.2.1.2 Plant Radio System

5.1.2.1.3 Text message to Notification Level Text Group

5.1.2.2 When a Lightning Alert is sent out the following actions must be taken:

5.1.2.2.1 All personnel conducting non-essential work in exposed elevated structures must bring their task to a safe mode and evacuate to a protective area.

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5.1.2.2.2 All crane and aerial lift operations must be brought to a safe position and stopped.

5.1.2.2.3 For confined spaces, where the manway attendant is located in an elevated exposed structure, spaces must be exited and personnel must evacuate to a protective area (including excavations designated as confined spaces).

5.1.2.2.4 All personnel working in exposed areas without overhead protections (i.e. Open fields) must bring their work to a safe mode and evacuate to a protected area.

5.1.2.2.5 All essential work critical to the safe operation of unit or facility will continue. Take all precautions to minimize exposure to Lightning during this alert.

5.1.2.2.6 Essential work will be determined by Management.

5.1.3 All Clear

5.1.3.1 When no lightning has been detected within seven (7) miles of the location for thirty (30) minutes, an All Clear will be called by the Weather Service and communicated utilizing the same media used for the Lightning Alert

5.1.3.2 Follow all site permit procedures regarding work stoppage prior to resuming any work in the facility.

6.0 Training

6.1 All Westlake and nested contract employees who conduct work in the Plaquemine facility must receive initial training on this policy.

6.2 Refresher training will be conducted when substantial revisions have been made to this policy.

7.0 Review Frequency

7.1 This policy will be reviewed every 5 years to ensure policy is in line with current applicable health and safety regulations and site safety management systems.

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Revision History

Rev	Changes	Approved	Date
1	<i>Updated logo, edited header information to include “Current Review Date” and “5 year review cycle, updated formatting errors, no content updates.</i>	H. Garner	3/16/2023