Revision Number	Revision Description	Revised By	Revision Date
New	Original issue of document: BMEHS-002.049	G. Dawson	12/01/2020
1	Added Tornado Watch and Warning ALL-CLEAR message.	K. Regalado	7/25/2024

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1. Purpose

The purpose of this Plan is to establish criteria for weather conditions, such as a tornado or Lightning, which creates an unsafe environment for personnel to continue working in elevated areas or in a permitted confined space area.

2. Scope

Using the StormGeo Weather service, threats of tornados or Lightning to the Beaumont site can be monitored for potential impact. This plan will specify the steps and actions to be taken by site personnel in the event of a tornado threat or Lightning strikes in the general area.

This plan also defines specific roles and responsibilities for monitoring and alerting site personnel of a potential Lightning event. Contractors should follow rules established by their companies, if more stringent.

3. Definitions

StormGeo:
A contracted, round-the-clock full weather service that is capable of monitoring severe weather conditions such as storms, tornados and/or Lightning in the general and immediate area of the site. This service is capable of sending warning alerts to designated individuals by E-Mail and phone based on real time weather activity for the purpose of protecting people and business interests.

Exposed Areas
This denotes locations where personnel could have the potential to be exposed to the effects of a Lightning strike or other effects form severe weather conditions. Examples of these areas are open fields; top elevation of structures (such as the tops of tanks, heaters or vessels); confined space work activities; etc.

Severe Weather Alerts
The notification given by StormGeo to the site as a warning of impending severe weather that has the potential to affect the site such as a tornado, severe storm, tropical depressions, Hurricanes, extreme cold fronts, etc.

Level 1 Lightning Alert:
The notification given by StormGeo to the site, indicating a Lightning strike has occurred within the 7-mile radius (ring) being monitored around the site.

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Level 2 All Clear:
The notification given by StormGeo to the site, indicating NO Lightning strikes have occurred for 30 minutes within a 14-mile radius of the site.

4. Plan Details

This plan follows a system based on increasing weather activity with a potential of creating an unsafe condition at our site and or impacting business interests.

Severe weather alerts are sent to site leadership personnel and to Security who will determine a course of action and then communicate that action to the site.

A. Severe Weather Alert

StormGeo will send a message to designated phones and E-Mail at the first indication of impending severe weather that may affect the site. If a severe weather alert is announced, Security personnel are instructed to contact the Shift Supervisor(s) (SS) on a site Radio and confirm they have received the threat of severe weather.

The Operations Manager if on site will determine what course of action to be taken and then communicate the response to the Shift Supervisor(s). If they are not on site or immediate contact cannot be made,
The Shift Supervisor(s) SS will determine the best course of action based on the impending danger and communicate the required actions to the site by a PA system announcement and security will announce a Radio ALL CALL message. Depending on the type of severe weather approaching, personnel will be instructed as to what must be done. **See Attachment A**

B. Tornado Basic Information

Tornadoes are one of nature's most violent storms. They can appear suddenly with little or no warning, but most commonly are found around unstable air masses usually from warm gulf air colliding with cold air from a cold front and are associated with thunderstorms.

Tornadoes can and do form anytime of the year but in this part of the country are most common during spring and early summer. They can come from any direction but usually travel from the west-southwest towards the east-northeast.

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Tornadoes can last from a few seconds to many minutes, can dissipate quickly and then reform. A tornado that forms over water is termed a waterspout and reclassified a tornado when in comes over land. While they are generally weaker than most tornadoes, they can still do substantial damage.

Due to their ability to form with very little warning we must be prepared to act quickly should one form nearby.

Tornado Watch: Conditions are right for tornado formation. It does not mean a tornado will form or has formed. Stay alert being prepared to act quickly should a Tornado Warning be issued.

Tornado Warning: Means a tornado has been spotted or that Doppler radar has detected a thunderstorm with circulation occurring. Be prepared for immediate action

Plan of action

When conditions are conducive for tornado formation monitor the weather forecasts and keep a close watch on the sky for signs of tornadoes.

If a **Tornado Watch** is issued via StormGeo, take the following steps:

- Security will call the SS to confirm knowledge of the alert
- The SS will initiate a plant Public Address System (PA) message to inform site personnel of the Watch and Security will announce a radio ALL CALL message. Personnel will be instructed to be alert for funnel cloud formation and to monitor the Radio and PA system for additional information. **See Attachment B**

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Should a Tornado Warning be issued, or a tornado is spotted moving towards our area take the following steps:

- Security will call the SS to confirm knowledge of the Warning

  Note: If a Tornado is spotted before StormGeo initiates a call, the person seeing the danger is to call Security or the SS
- The SS when notified will initiate a plant PA system message to take cover and security will announce a radio ALL CALL message.

  See Attachment B
- Personnel in trailers or unsubstantial building should **immediately** go to the following **Weather Shelter Locations:**
  - Admin. Building / Large Open Conf. Area
  - Maintenance Building Offices/Shop / Maint Lunch Rm.
  - I&E Shop/Offices / I & E Lunch Rm
  - Beaumont North Admin. Offices / Conf. Rm.
  - Pil Building / Pil B Conf. Room
  - Central Lab / Break Rm.
  - Beaumont North Control Room / Break Rm.
  - DMTA Control Room / Break Rm.
  - Pack Out / Break Rm.
  - Gate 2 Security Building / Inside Main entrance area
  - Waste Well Data Building / Inside Main room:

- Move away from doors or windows
- If you are unable to make it to one of these buildings, then try to move at right angles to the track of the tornado putting as much distance between you and the storm
  - If in the open between buildings, lie flat in a ditch or other low area.
  - Get away from objects that may become airborne
  - If necessary, the plant emergency response plan will be initiated

NOTE: In the case of a Watch or Warning, once the hazardous weather has cleared, the Site Security will initiate a plant PA system message informing personnel of how to proceed and security will announce a radio ALL CALL message.

Lightning Basic Information

A single stroke of lightning has 125,000,000 volts of electricity. That's enough power to light a 100-watt light bulb for more than 3 months, or enough to seriously hurt or to kill someone. Lightning is something you should not be careless around.

The flash of a lightning strike and resulting thunder occur at roughly the same time. But light travels at 186,000 miles in a second, almost a million times the speed of sound. Sound travels at the slower speed of one-fifth of a mile in the same time. So, the flash of lightning is seen before thunder is heard.

By counting the seconds between the flash and the thunder and dividing by 5, you can estimate your distance from the strike (in miles).
Example:

[1] You see lightning
[2] Start counting
[3] When you reach 5, you hear thunder,
In this scenario, you are approximately one (1) mile from the strike

Lightning always produces thunder. When you see lightning but don't hear any thunder, the lightning is too far away from you for the sound waves to reach you.

C. Lightning Plan of Action

StormGeo will send a message to designated phones (i.e. Security Main Gate phone / Utilities Console) and designated individual E-Mail addresses when a Lightning strike occurs within a 7-mile radius of the site. This alert is defined in the definitions section of this procedure as **Level 1**.

Level 1 Lightning:

When a Lightning strike has occurred within the 7-mile radius of the Beaumont BASF site, two types of automated warning messages will be activated. One is an E-Mail message sent to specifically identified computers and the second warning is an automated message to specific identified phones and Security Main Gate
The StormGeo Lightning alert (Level 1) message is as noted below:
StormGeo has issued a Lightning Proximity Alert for Beaumont, TX.
Lightning has breached the 7-mile perimeter around this location.

This location is in reference to our specific Beamont site location.

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At the time of the alert, immediately security will notify all site personnel of the danger by making a site wide Radio ALL CALL and will make an announcement through the site wide Public Address System (PA).
See Attachment C

NOTE: In the event Lightning occurs and NO alert has been given by StormGeo, the individual who sees the Lightning must notify Security.
Actions to take when in a Lightning alert:

Exit confined spaces, come down from elevated areas to ground level, and report your location to your supervisor.

Discontinue all crane activities and if applicable, retract the boom for any crane in use. Crane operators are to exit the cab.

Level 2 Lightning:
ALL CLEAR
When the immediate Lightning threat has passed, an All Clear (**Level 2**) will be initiated to inform the site that the threat no longer is in the designated radius. As done in Level 1, StormGeo will send an E-Mail and phone message stating that the immediate threat no longer exists within a 14-mile radius of the site.

The StormGeo Lightning alert (**Level 2**) message is as noted below:
StormGeo has ended a Lightning Proximity Alert for Beaumont, TX.
No lightning has been detected within a 14-mile perimeter around this location for the last 30 minutes.

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Attachment A

SEVERE STORM ALERT

ATTENTION….. I REPEAT ATTENTION,

A SEVERE STORM ALERT HAS BEEN ISSUED FOR OUR IMMEDIATE AREA.

ALL PERSONNEL WORKING IN THE UNIT OR OUTDOORS MUST REPORT TO THE NEAREST SHELTER IN PLACE LOCATION AND CONTACT THEIR SUPERVISOR.

I REPEAT…..

ALL PERSONNEL WORKING IN THE UNIT OR OUTDOORS MUST REPORT TO THE NEAREST SHELTER IN PLACE AND CONTACT THEIR SUPERVISOR.

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Attachment B

TORNADO WATCH

ATTENTION….. I REPEAT ATTENTION,

THIS IS A SEVERE WEATHER ALERT.

WE ARE UNDER A TORNADO WATCH.

THE ONLY ACTION AT THIS TIME IS TO MONITOR THE SKY AND BE ALERT FOR A FUNNEL CLOUD FORMATION.

ADDITIONAL INFORMATION WILL BE ANNOUNCED AS IT BECOMES AVAILABLE.

TORNADO WATCH ALL CLEAR

ATTENTION….. I REPEAT ATTENTION,

THIS IS AN ALL-CLEAR MESSAGE. THE BEAUMONT FACILITY IS NO LONGER UNDER A TORNADO WATCH.

I REPEAT…..

THIS IS AN ALL-CLEAR MESSAGE. THE BEAUMONT FACILITY IS NO LONGER UNDER A TORNADO WATCH.

Attachment B

TORNADO WARNING

ATTENTION….. I REPEAT ATTENTION,

A FUNNEL CLOUD HAS BEEN REPORTED,

ALL SITE PERSONNEL REPORT TO THE NEAREST SHELTER IN PLACE AND CONTACT THEIR SUPERVISOR.

I REPEAT…..

ALL SITE PERSONNEL REPORT TO THE NEAREST SHELTER IN PLACE AND CONTACT THEIR SUPERVISOR.

TORNADO WARNING ALL CLEAR

ATTENTION….. I REPEAT ATTENTION,

THIS IS AN ALL-CLEAR MESSAGE. THE BEAUMONT FACILITY IS NO LONGER UNDER A TORNADO WARNING.

ALL SUSPENDED WORK CAN NOW RESUME ONCE PERMISSION IS GRANTED BY THE PERMIT ISSUER.

I REPEAT…..

THIS IS AN ALL-CLEAR MESSAGE. THE BEAUMONT FACILITY IS NO LONGER UNDER A TORNADO WARNING.

ALL SUSPENDED WORK CAN NOW RESUME ONCE PERMISSION IS GRANTED BY THE PERMIT ISSUER.

Attachment C

LIGHTNING ALERT

ATTENTION….. I REPEAT ATTENTION,

A LIGHTNING ALERT HAS BEEN ISSUED FOR THE BEAUMONT BASF FACILITY.

ALL ELEVATED WORK AND CONFINED SPACE ENTRY WORK IS TO STOP AND ALL WORKERS ARE TO COME DOWN TO GROUND LEVEL AND REPORT TO YOUR SUPERVISOR.

I REPEAT…..

A LIGHTNING ALERT HAS BEEN ISSUED FOR THE BEAUMONT BASF FACILITY.

ALL ELEVATED WORK AND CONFINED SPACE ENTRY WORK IS TO STOP AND ALL WORKERS ARE TO COME DOWN TO GROUND LEVEL AND REPORT TO YOUR SUPERVISOR.

YOU WILL BE ADVISED WHEN THE LIGHTNING ALERT IS LIFTED.

LIFTING OF LIGHTNING ALERT

THE LIGHTNING ALERT FOR THE BEAUMONT SITE HAS BEEN LIFTED.

ALL SUSPENDED WORK CAN NOW RESUME ONCE PERMISSION IS GRANTED BY THE PERMIT ISSUER.

I REPEAT, THE LIGHTNING ALERT FOR THE BEAUMONT SITE HAS BEEN LIFTED.

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