Operate SY Tank Farm General Electric High Mast Lighting System

Table of Contents

1.0 PURPOSE AND SCOPE ................................................................. 2
  1.1 Purpose .............................................................................. 2
  1.2 Scope .............................................................................. 2

2.0 INFORMATION ........................................................................ 2
  2.1 Terms and Definitions ...................................................... 2
  2.2 General Information ......................................................... 2

3.0 PRECAUTIONS AND LIMITATIONS ...................................... 3
  3.1 Personnel Safety .............................................................. 3

4.0 PREREQUISITES .................................................................... 3

5.0 PROCEDURE ........................................................................... 4
  5.1 Weekly Inspection ............................................................ 4
  5.2 Operate General Electric High Mast Lighting System .......... 6
  5.3 Records ............................................................................. 8
1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for inspection and operation of the General Electric high mast lighting system.

1.2 Scope

This procedure is applicable to the General Electric high mast lighting system at SY Farm.

2.0 INFORMATION

2.1 Terms and Definitions

2.1.1 Luminaries - Individual light assemblies.

2.2 General Information

2.2.1 The General Electric high mast lighting system consists of a 100 foot galvanized pole. Each pole is equipped with up to twelve 480 Volt General Electric Powr●Spot III floodlights with glare control or specified equivalent.

2.2.2 The General Electric high mast lighting system requires an external drive motor to lower the lighting mast to ground level for maintenance. This motor is installed and operated by maintenance craft personnel during lighting repair and/or replacement.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Personnel trained in the operation of breakers and disconnects will wear the following PPE as a minimum:

- Hearing protection
- Non-melting (untreated natural fiber) pants and long-sleeved shirt
- Safety glasses
- Leather or insulating gloves.

4.0 PREREQUISITES

None
5.0 PROCEDURE

5.1 Weekly Inspection

5.1.1 IF lighting equipment is on, GO TO Step 5.1.6.

NOTE - Panel for 241-SY Tank Farm is located outside on northeast side of 241-SY change trailer.

5.1.2 IF lighting system is not on, ACTIVATE lighting equipment as follows:

5.1.2.1 ENSURE personnel trained in the operation of breakers and disconnects don PPE (refer to Section 3.1).

5.1.2.2 PLACE AUTO/OFF/HAND key switch in HAND position. (Located at central master control station panel.)

5.1.2.3 PLACE REMOTE/LOCAL key switch in REMOTE position. (Located at central master control station panel.)

5.1.2.4 PLACE POWER ON key switch in ON position. (Located on radio control remote transmitter panel.)
5.1 Weekly Inspection (Cont.)

5.1.3 **PUSH AND HOLD** red RESET button until "R" and "T" lights flash green at same time.

5.1.4 **PUSH** green LIGHTS ON button.

5.1.5 **ALLOW** 20 minutes for lighting equipment to warm up.

**NOTE** - Operation is defined as all individual lamps on. Variations in color are not indicative of age of lamp or imminent lamp failure. Lamps may become misaligned because of high wind conditions or lamp mounting hardware becoming loose.

- Lamps pointing straight down or not in relative sync (direction) with other lamps will be considered misaligned.

5.1.6 **VISUALLY INSPECT** all luminaries for damaged or non-functional and misaligned lamps.

5.1.7 **NOTIFY** Shift Manager of location for misaligned or non-functioning lamps.

5.1.8 IF requested by Shift Manager, **TURN OFF** lighting as follows:

5.1.8.1 **ENSURE** personnel trained in the operation of breakers and disconnects don PPE (refer to Section 3.1).

5.1.8.2 **PUSH AND HOLD** red RESET button until "R" and "T" lights flash green at same time.

5.1.8.3 **PRESS** black LIGHTS OFF button.

5.1.8.4 **SET** AUTO/OFF/HAND key switch to AUTO position.
(Reserved at central master control station panel.)
5.2 Operate General Electric High Mast Lighting System

**Turn Lighting System On**

5.2.1 **IF** directed by Shift Manager, **TURN ON** lighting system as follows:

5.2.1.1 **ENSURE** personnel trained in the operation of breakers and disconnects don PPE (refer to Section 3.1).

5.2.1.2 **PLACE POWER ON** key switch in ON position. (Located on radio control remote transmitter panel.)

5.2.1.3 **PUSH AND HOLD** red RESET button until "R" and "T" lights flash green at same time.

5.2.1.4 **PUSH** green LIGHTS ON button.

5.2.1.5 **ALLOW** 20 minutes for the lighting equipment to warm up to complete luminosity.

5.2.1.6 **IF** some lights do not appear to be lighting within ten minutes, **CONFIRM** RESET light is not lit on radio control remote transmitter panel.

5.2.1.7 **IF** lights still do not come on using the radio control remote transmitter panel, **CONFIRM** the following on central master control station panel:

- Key operated LOCAL/REMOTE switch is in REMOTE position
- Key operated AUTO/OFF/HAND switch is in AUTO position.
5.2 Operate General Electric High Mast Lighting System (Cont.)

5.2.2 IF directed by Shift Manager to have lights come on automatically at dusk and off automatically at sunrise, **PERFORM** the following:

NOTE - Controls are located on central master control station panel.

5.2.2.1 TURN LOCAL/REMOTE key switch to LOCAL position.

5.2.2.2 TURN AUTO/OFF/HAND key switch to AUTO position.

5.2.3 IF directed by Shift Manager to continuously operate lighting system (24 hours/day, seven days/week), **PERFORM** the following:

5.2.3.1 **ONCE** per week TURN OFF lighting system per Step 5.2.4.

5.2.3.2 WAIT 20 minutes to prevent burnout.

5.2.3.3 AFTER lighting system has been turned off for at least 20 minutes, **GO TO** Step 5.2.1.
5.2 Operate General Electric High Mast Lighting System (Cont.)

**Turn Lighting System Off**

5.2.4 IF directed by Shift Manager, TURN OFF lighting system as follows:

5.2.4.1 ENSURE personnel trained in the operation of breakers and disconnects don PPE (refer to Section 3.1).

5.2.4.2 PUSH AND HOLD red RESET button until "R" and "T" lights flash green at same time.

5.2.4.3 PRESS black LIGHTS OFF button.

NOTE - Lights cannot be turned back on immediately after extinguishing their power. Ten to twenty minutes may be required to allow lamps to cool before re-lighting can be achieved.

- Pressing RESET button on radio control remote transmitter panel will not accelerate re-lighting wait time.

5.2.5 IF directed by Shift Manager not to have the lights come on automatically at dusk and off automatically at sunrise, PERFORM the following:

NOTE - Controls are located on the central master control station panel.

5.2.5.1 TURN LOCAL/REMOTE key switch to REMOTE position.

5.2.5.2 TURN AUTO/OFF/HAND key switch to AUTO position.

5.3 Records

NOTE - The performance of this procedure generates no records.

The record custodian identified in the Company Level Records Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.