

	LNG MAINTENANCE PROCEDURE	Procedure No: BG-MP-24
	UV DETECTION INSPECTION	Published Date: 11/21/2020
		Superseded Date: 05/20/2021
		Approved By: R. Kopjanski

I. OBJECTIVE

Routine inspection of UV Fire Detectors per code.

II. REFERENCES

A. Code References:

1. Title 49 CFR 193.2619 (c) (2). Control systems that are intended for fire protection must be inspected and tested at regular intervals not to exceed 6 months.

III. FREQUENCY

Every 5 months not to exceed 6 months.

IV. MANUFACTURE

Det-Tronics, General Monitors.

V. SPECIAL TOOLS OR EQUIPMENT

Calibration gas with regulator and hose, magnet or Hart monitor, infrared spotlight.

VI. PPE

Hard hat, safety glasses, safety shoes, FR clothing, and hearing protection for rooms with running equipment.


VII. EQUIPMENT/CHECKLIST

See Table 1.

VIII. PROCEDURE

A. UV Detection Inspection

1. Do the following for each Det-Tronics X3301 UV detector (Figure 1):
 - a. The UV/IR fire detectors require no periodic calibration. To maintain maximum sensitivity, however, the detector viewing windows must be kept clean at all times. These windows shall be cleaned at least once every six months. The detectors shall be checked for proper operation with a triggering mechanism. The purpose of the check is to confirm proper recognition by each fire detector sensor and the relay of that recognition back to the facility control room and back to the SCG/CNG/BGC gas control center.
 - b. Notify the plant and gas control the fire alarm system is being tested.
 - c. Use Det-Tronics magnet attached to telescope pole to reach detector for test. Apply magnet to test strip on right side of UV detector. Green light should start flashing. After 5 seconds confirm light should turn

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solid red and after then turn flashing red. Alarm will sound & strobe light flash after it starts blinking red

- d. Document Yes/No in Table 1, adding observations as Notes.
- e. Coordinate with Control Room Operator to clear the alarms.



Figure 1 – Front View of the X3301

2. UV Detection Checklist:

TAG AND LOCATION	TRIPPED (Y/N)	NOTES
FD-60 Tank "A"		
FD-61 Vaporizer "500"		
FD-62 Transport Area		
FD-63 Unloading Skid		
FD-64 Between Tanks "A" & "B"		
FD-65 Tank "B"		
FD-66 Vaporizer "560"		

Table 1 – UV Detection Inspection Checklist

Sign and date the Work Order:

Work Performed by (Signature) _____ Date _____

Reviewed by (Signature) _____ Date _____