

## Incident Report

**Completed by:** Boone Brothers

**Date:** July 7, 2021

**Location of Incident:** BD  
1211 Mary Magnan Blvd.  
Madison GA 30650

**Release Point:** Sterilizer Line 7, PRV Vent Line

**Date of Incident:** July 2, 2021

### **Description of Incident:**

The pressure relief valve on the separator tank developed corrosion at the sealing surface of the valve seat. Maintenance technicians detected EtO at the flame arrestor on the roof during the weekly Leak Detection and Repair (LDAR) program. The corrosion prevented the pressure relief valve from fully closing. The calculated amount of EtO released was 1.01 lbs.

### **Root Cause Investigation:**

The investigation indicates that a combination of EtO and water vapor accumulated on the valve face and valve seat causing a scaly residue to form. This residue material prevented the valve from fully seating, allowing a small amount of EtO to flow to the flame arrestor on the roof while the majority of the EtO was flowing to the Regenerative Thermal Oxidizer (RTO) for destruction.

### **Corrective Actions**

The following steps to be taken as corrective action:

1. Install a rupture disk beneath the pressure relief valve to prevent contact with material in the pipe.
2. Install pressure indicating rupture disc to alarm when pressure setting is exceeded.