



SAFETY & HEALTH

DOCUMENT NAME: LINE BREAKING PROCEDURE - SPY15

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LINE BREAKING PROCEDURE**1 PURPOSE**

To protect employees from injury caused by the unexpected release of **hazardous materials** while opening or disconnecting process piping or equipment that cannot be verified as cleared and/or depressurized.

Verified: to confirm by flow of flush liquid or air/nitrogen, open and clear bleeder within four feet of break point or some other method which proves that only residual material may be present. **Other methods of verification may include:**

- 1.1 instrumentation specific to the chemical hazard
- 1.2 chemical (color change) indicators
- 1.3 surface temperature of the external piping (indicating trapped liquid)

2 SCOPE

This procedure pertains to all personnel who participate in line breaking activity. This procedure includes flanged or welded piping as well as process equipment. **Consideration will be given to others working downwind, or above and below the linebreak at an appropriate distance.**

3 APPLICATION

This procedure applies anytime process equipment or piping containing or having previously contained hazardous material is to be opened and cannot be verified as being cleared of **hazardous material**.

For the purpose of this procedure the term **hazardous material** shall mean any substance that is corrosive, toxic, flammable, reactive, under pressure greater than 10 psi, above 120 ° Fahrenheit or at or below 32° Fahrenheit. This procedure also applies to plant utilities such as air, nitrogen, and water when defined as hazardous.

This procedure is to be used in conjunction with applicable Plant Policies and Procedures. Each situation must be evaluated individually to employ the appropriate safe guards for the particular job. Respiratory, eye / face and hand protection may be needed even if the line breaking procedure is not used due to residual material and vapor concentration.

In situations where the system cannot be **verified as** cleared and/or depressurized due to plugging, Line Breaking protective measures shall be utilized for multiple breaks until the plug is found and eliminated.

Warning – High temperature and extremely low temperature materials pose additional hazards not addressed by this procedure.

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