



## FIELD GUIDE

### EHSS-Phos Program – Line Breaking & Equipment Opening

**NOTE:** This Field Guide has been prepared for the exclusive use and benefit of Phosphate BU personnel of Mosaic Fertilizer, LLC. It is intended to provide a generic, non-exhaustive overview of the Phosphates BU Line Breaking & Equipment Opening Program. It is not a substitute for any provision of the Program or the underlying regulations; the user should consult the Program and the current regulations to ensure compliance.

**EHSS-Phos Line Breaking & Equipment Opening Program** describes the standard procedure for safe preparation and opening any system that has contained hazardous material such as: acid, steam, caustic, ammonia, flammable, combustible, radioactive, oxidizer or toxic materials.

#### Requirements prior to performing a Line Break:

- Follow applicable LOTO plans
- Complete Safe Work Permit and PJRA
- Ensure you have the correct PPE
- Identify a watchman
- Develop a plan to stay out of the line of fire
- Develop a safe plan with your supervisor to purge out the pressure or the contents inside the line/equipment. Have a plan to capture the contents in a way that is safe and that will not cause an environmental issue
- Barricading material to barricade the area around the Line Break
- Make sure there is a safety eyewash station, flushing solution, or other means available for first aid in the area, that is in good working condition

#### Valve Specific Guidelines

Systems that have contained or could contain Hazardous Materials shall be isolated and secured by one of the following methods: 1) double block and bleed valve; 2) a single block valve and a locked out pump; or 3) blinding of the line. If none of the previous methods are possible both Manager and Safety Department approval are required. Designate a Custodian to assume responsibility for the new Lock Box.

- Automated valves shall not be used or considered an isolation point without means of physically disconnecting the power source and verifying the valve will maintain a positive position during the work.
- Knife Gate Valves may suffice as a blind for isolating Hazardous Material lines if:
  - A. The knife gate valve shall be of the open frame type construction where the slide gate is visible at all times.
  - B. The slide gate completely covers the bore of the pipe and:
  - C. The motive force for actuating the valve is disabled, locked out and pressures bled down; or
  - D. The slide gate actuating rod is physically disconnected and a lock placed through the connector pin hole.

This Field Guide provides only the most basic information about Line and Equipment Opening, as referenced in the **EHS Safe Work Permit Training CBT Module**. Our **Phosphate Line Breaking & Equipment Opening Program** provides much more detail on this topic. Here is the link to the BU Program:

["Program Link"](#)

If you need help accessing the BU Program, please contact your supervisor or a member of the EHS Department.

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