

LINE ALERT™

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The Benefits of LINE ALERT™

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Our Objective

To develop a product/technology that will significantly reduce the loss of life, injuries, damage to property, environmental damage and disruption to services caused by damage to existing underground lines as a result of excavation.

LINE ALERT IS THIS PRODUCT





LINE ALERT Overview

- Makes it safer to excavate over an underground line
- Gives a constant visible guide to the distance from an underground line at all times
- Warns an excavator as he/she gets closer to the underground line
- Creates a much safer dig site by virtually eliminating the need to probe and by reducing the amount of time laborers spend in the ditch
- Potholed/Daylighted lines can be backfilled immediately, thereby reducing open hole hazards



Why Use LINE ALERT

- LINE ALERT reduces risks associated with the excavation of underground lines
- Many of these risks are directly related to the potential of a line strike during a planned excavation
- LINE ALERT, when installed and used properly, significantly reduces the risk of a line strike during an excavation





Risk Reduction Using LINE ALERT

- Risks associated with the excavation of underground lines can be grouped into three areas:
 - Safety Risks
 - Environmental Risks
 - Financial Risks



Safety Risks - Current Practices

- Current practices during excavation work do not involve precise, real time measurements as to how close the dig is to the underground line
- In some cases, incorrect measurements are the cause of line strikes or near misses
- If the line carries flammable substances a strike can cause an explosion, fire and/or environmental damage
- The risk of injuries to workers is very high and sometimes unfortunately results in fatalities





Safety Risks - Current Practices (con't)

- Current excavation practices can require laborers to enter the ditch to probe for and/or re-expose the line. Depending upon the line type, probing can result in electrocution or puncturing of the line causing injury
- Probing and re-exposing of lines increase the amount of time laborers must spend in the ditch and be exposed to risks such as sidewall cave-ins
- In most instances, holes are left open until excavation occurs, creating safety risks for people, pets, livestock and wildlife. These risks can increase if the hole is obscured by snow or water.





Safety Benefits – LINE ALERT

- LINE ALERT provides a constant visual guide for workers using the GREEN, YELLOW and RED colored sections with distances shown in one inch increments that are boldly displayed on each fold of the Panel
- Once the dig reaches the predetermined distance (KeiBerg recommends before the RED section of the Panel is exposed), mechanical excavation ceases
- LINE ALERT virtually eliminates the practice and risks of probing and reduces the time laborers spend in the ditch
- Potholed/Daylighted lines can be backfilled immediately, thereby eliminating the jobsite hazard of open holes



Environmental Risks - Current Practices

- The environmental damage caused by a line strike is well documented
- The damage to the environment caused by a line strike can be catastrophic and expensive





Environmental Benefits–LINE ALERT

- By significantly reducing line strikes, LINE ALERT will also significantly reduce the risk of environmental damage caused by a line strike
- The LINE ALERT Panel is biodegradable and recyclable





Financial Risks – Current Practices

- There usually are significant costs to repair an underground line that has been damaged during an excavation
- Direct out of pocket costs for a facility owner to repair a damaged line can be significant
- Indirect costs of a line strike to a facility owner's reputation can also be significant





Financial Risks - Current Practices (con't)

- Open potholed/daylighted holes create risk of exposed pipeline damage from falling debris or vandalism
- Open holes during winter months can create increased costs from sidewall freezing and from subsequent increased labor required to re-expose the line
- Open holes can cave in, requiring a second potholing/daylighting and related costs





Financial Benefits – LINE ALERT

- LINE ALERT creates a safer and more efficient excavation process by significantly reducing line strikes and also reducing the amount of time required to cross an existing underground line
- This should reduce the costs of a project through lower equipment, labor, repair, insurance and other costs
- Without LINE ALERT, an excavation can take longer and pose a higher risk to workers, surrounding population, facility owners and the environment.





Financial Benefits – LINE ALERT (con't)

- Potholed/daylighted holes are backfilled immediately after the installation of a LINE ALERT Panel, thereby:
 - Eliminating damage to pipelines from falling debris or vandalism. This has obvious security benefits
 - Reducing sidewall freezing in winter months
 - Eliminating the need for second potholing/daylighting as a result of cave-ins





Summary of Benefits of LINE ALERT

By acting as a measured, real-time guide to existing underground lines, LINE ALERT creates a new excavation process that significantly reduces the risk of line strikes. Using LINE ALERT will protect the environment, save facility owners time and money and, most importantly, significantly reduce worker injuries and save lives.



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