

**Survivability/Re-Establish**

Element(s)	Dynamic Impact	Fire	Static Pressure	Power Interruption
<Name/Description>	<Likely failure>	<Likely failure>	<Likely failure>	<Likely failure>
	<Re-establish options>	<Re-establish options>	<Re-establish options>	<Re-establish options>

## Legend

- **Element** – provide the name and description of each element of the product/system
- **Dynamic Impact** – in the top cell describe what is likely to happen if the Element is in the path of explosion moving down an entry and in the lower cell describe what options there are for re-establishing the system in the case the element is rendered non-functional and what testing was done to verify performance
- **Fire** – in the top cell describe what is likely to happen if the Element is subjected to a fire and in the lower cell describe what options there are for re-establishing the system in the case the element is rendered non-functional and what testing was done to verify performance
- **Static Pressure** – the top cell describe what is likely to happen if the Element is subject to a static pressure as the result of an explosion and in the lower cell describe what options there are for re-establishing the system in the case the element is rendered non-functional and what testing was done to verify performance
- **Power Interruption** – in the top cell describe what is likely to happen if power to the Element is interrupted and in the lower cell describe what options there are for re-establishing the system in the case the element is rendered non-functional and what testing was done to verify performance

## Process Notes:

For purposes of comparison, manufacturers should reference the Sago Reports on the WV OMHS&T web page. The reference scenario is that event.

It is difficult to predict specific impacts on each technology because of the variety means of placing specific elements of the communication-tracking systems within the entry or cross section. Generally most likely worst case event is an explosion which will destroy all devices protruding from the rib, roof or floor for a distance of 2000 feet. The second most likely worst case event is a fire or extreme heat that has propagated though out an area of 500 feet of entry or cross cut and has destroyed all man-made devices protruding from the rib, roof or floor. Manufacture may assume their devices will survive these events if they have demonstrated survival and are able to document such. In all other cases the response should assume that all elements of their product have been rendered non-functional and should discuss means for re-establishing functionality.

Redundant signal pathways and hardening options provided by the technology may be described in addressing survivability.

Provisions for rapid reconnection unique to the technology should be described.