Safely starting back up after COVID-19

As companies pursue a return to normal operations in this uncertain time, how prepared are they to prevent injuries and damage to their safety culture? Whatever their previous safety strategy was, it is time to recreate it in light of these new realities.

With a push to restart the global economy, and due to understandable financially motivated decisions, certain organizations throughout the world are beginning to phase their workforce back into the field. They are doing so while attempting to return to the previously normal cadence of business activities. However, what worked in the past to prevent injuries and illnesses on and off the job will not be part of a workable strategy going forward.

Whatever your company’s strategic priorities and supporting initiatives were, times have changed, and so must your safety strategy. A people-centered, yet physically distant, safety strategy is needed.

Aligning employees: Employees will be returning to work. Some have been away from their jobs for months, some only weeks. How will you ensure they are familiarized with the risks they will face? What falls within their collective and individual responsibilities to help mitigate those risks? What information do they need to safely restart their jobs? What do they need in the form of employee assistance programs? Some of these employees were themselves sick or tragically lost loved ones to the virus. Some will be new to the company, as furloughed or laid-off employees might have found other employment. What are your strategic priorities to ensure alignment with the workforce?

Aligning leadership: Leaders will now have face time with their workforce again. Many of these individuals themselves face the same challenges as their employees. In their leadership roles, will they be prepared to demonstrate the behaviors of the newly needed leadership style? Have you outlined what they will need to do differently to advise, counsel, coach, facilitate, communicate, nudge, etc., their teams? Do they have the skills necessary to fulfill these responsibilities? How will you ensure this is all taking place? What are your strategic priorities to ensure alignment with those in leadership positions?

Aligning safety culture: Cultures and subcultures within many companies might have changed, for better or worse, based on shared perceptions of how the company handled its response to this virus. There will likely be new viral stories and fresh experiences shared across the workforce that will create positive or negative impressions of how much emphasis the company places on safety versus production. These impressions stem from the impressions originally formed when the virus first made news and evolve based on how the company restarts its operations. Whatever your strategic priorities to ensure the alignment to the safety culture you need to get over the next hurdles?

Adherence to CDC guidelines: CDC’s guidelines on social distancing (only small group gatherings, maintaining 6 feet or 1.5 meters’ distance from others), utilizing face masks, and frequent washing of hands or using hand sanitizer are still in place for many until further notice. How will you redesign jobs’ specific tasks and the working environment to adhere to these guidelines for the foreseeable future?

These are strategic safety decisions that will impact operations. Ensure collaboration occurs between the heads of operations and safety. These forces must join to customize a plan that works for your company’s unique operational, cultural and logistical realities. What will your people-centered, yet physically distant, strategy be?

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Advantages of continuous siloxanes measurements

Renewable natural gas (RNG), also known as biomethane, is a carbon-neutral fuel that can be used as an alternative to fossil natural gas. RNG is produced by upgrading biogas to meet defined quality standards, after which it may be distributed via the existing gas grid or sold as an alternative fuel source in the form of compressed natural gas for vehicles. As a result of various government incentives, federal renewable fuel requirements and an interconnection rules while also optimizing supplier performance, RNG suppliers can supply RNG that can be injected into a distribution system. Two examples are PG&E’s Rule 21 and SoCalGas’ Rule 30. Both set 0.1 mg Si/m³ specification. To address this, ASTM Method D8230-19 was recently created. It lists gas chromatography — atomic emission detector (GC-AED), gas chromatography — mass spectrometry (GC-MS), and inductively coupled plasma mass spectrometry (ICP-MS) as suitable methods for laboratory analysis of samples collected from biogas/RNG production facilities. Although a small number of commercial labs have started reporting limits that can meet the requirements described in rules 21 and 30, most cannot.

In addition to the difficulty of accurately measuring siloxanes, there are also problems with the common methods of sample collection. With Tedlar bags or passivated stainless steel canisters, less volatile siloxanes like D4 and D5 — the majority of siloxanes in landfill and digestor gas — may adhere to the interior, leading to low-measurement bias. In addition, siloxane recoveries can degrade rapidly in Tedlar bags, which is why ASTM D8230-19 requires analysis within 72 hours. Finally, some Tedlar bags may contain silicone-based lubricants in the valve stem, leading to high-measurement bias.

While sorbent traps have the potential to be the ideal sampling method, the ASTM method calls for sample extraction using methylene chloride, but there are concerns regarding matrix interferences from the extraction solvent and the sorbent material itself. A user-friendly sampling technique and thermal desorption method for siloxane sorbent traps is now being developed and will be presented to the ASTM D03 committee for inclusion in D8230-19.

Given these challenges, the future is a continuous online analyzer. An analyzer utilizing gas chromatography coupled with an ion mobility spectrometer (GC-IMS) applies two dimensions of separation to the constituent compounds, providing excellent sensitivity for every siloxane species, and reporting speciated and total siloxane measurement data without matrix interferences.

With the GC-IMS, a biogas or RNG supplier will be able to comply with utility interconnection rules while also optimizing scrubber material replacement.

For more information, visit www.ohiolumex.com/bic-siloxanes.