

Case Study

How Point Lisas Nitrogen Built One **Connected Safety System** for High-Risk Ammonia Operations

Industry

**Chemical
Manufacturing**

Employees

100

Customer since

2022

Point Lisas Nitrogen Limited operates a high-risk ammonia production facility in Point Lisas, Trinidad and Tobago, producing material used primarily in fertilizer manufacturing and global agricultural supply chains. The facility operates continuously in a demanding industrial environment where process safety and operational discipline are inseparable.

Employees and contractors work around pressurized gas systems, high temperatures and complex equipment where the consequences of failure can be

severe. As the operation grew more complex, maintaining visibility, accountability and follow-through across safety workflows became increasingly critical.



Challenges

Point Lisas Nitrogen's ammonia production facility has many safety risks. Process safety hazards include fire, explosion and loss of containment, while occupational risks include falls from height, burns and line-of-fire injuries. During planned turnarounds, contractor populations can increase to as many as 500 people, further increasing operational complexity.

Although the organization has a dedicated health, safety, security and environment (HSSE) function, safety is treated as a line responsibility across operations, maintenance and engineering. Supporting that philosophy required systems that could keep pace with the scale and risk of the work.

” At Point Lisas Nitrogen, safety is our number one priority. Our philosophy is that safety is everyone's responsibility.



Sheldon Samsoodar
Electrical & Instrumentation Superintendent

Safety and operational workflows relied heavily on spreadsheets, Word documents, PDFs and manual follow-up. Records lived in multiple locations, making it difficult to track

approvals, verify completion of corrective actions or gain a clear, real-time view of what work was still open.

” Before Evotix, we had a lot of manual processes. We tracked action items via spreadsheets and incidents via Word documents.



Sheldon Samsoodar
Electrical & Instrumentation Superintendent

Before Evotix

Before implementing Evotix, Point Lisas Nitrogen managed safety and operational work through largely manual processes. While this approach supported day-to-day activity, it became harder to maintain visibility and consistent follow-through as operational complexity increased.

Action items, incidents and audit findings were tracked in different spreadsheets and documents, requiring manual effort to confirm completion and approvals. Permit to work processes relied on hard-copy books and later PDF templates, limiting visibility once work was underway, particularly during turnarounds.

After Evotix

With Evotix in place, Point Lisas Nitrogen now manages safety and operational work from a single connected system. Permits, incidents, management of change, audits and action items are visible in one place, giving teams and leaders a clearer view of what work is underway and what remains open.

Automated workflows, notifications and mobile access reduce reliance on manual follow-up and support more predictable execution across both routine operations and high-risk periods.

” Evotix is great software. It’s easy to configure and easy to use.



Sheldon Samsoundar
Electrical & Instrumentation Superintendent

The Outcome

With one connected system supporting safety and operational workflows, Point Lisas Nitrogen strengthened visibility, accountability and follow-through across the organization.

Reporting became more complete. After implementation, incident counts increased, not because risk increased, but because the reporting process became easier to use. Incidents that may not have been documented before are now captured, investigated and addressed.

During a planned turnaround in 2024, just weeks after launching Evotix, operations teams were able

to see all open permits at the end of each day. This visibility prompted timely conversations around job completion, equipment de-isolation and housekeeping. Permits are now categorized, prioritized and automatically suspended if valid times are exceeded.

Action tracking also improved significantly. Ownership and status are visible across departments and records cannot be closed unless actions are completed and approved. While the team continues to develop more advanced dashboards, action tracking has already helped reduce the risk of tasks being forgotten and repeat issues occurring.

16,000

Permits processed
Supporting day-to-day operations and major turnarounds

300

Management of change records
Tracked from initiation through approved closure

200

Incidents reported
Improving visibility into risk across the facility

2,000+

Action items tracked
With enforced completion and approval

Why Evotix?

Point Lisas Nitrogen selected Evotix for its ability to support multiple safety workflows in a single, configurable platform. The system aligned with existing processes while providing better structure, visibility and accountability across the organization.

Evotix enabled PLNL to modernize safety management without forcing teams to change how work gets done, supporting adoption across operations, maintenance, engineering and HSSE.

” What I found exceptional at Evotix was the people. The implementation team was a pleasure to work with.

To date, Evotix has helped Point Lisas Nitrogen:

Centralize safety and operational workflows in one system

Improve visibility into permits, incidents and actions

Strengthen follow-through and accountability

Support safer execution during high-risk periods

What's Ahead

Point Lisas Nitrogen continues to refine how it uses the Evotix platform. Near-term priorities include further development of dashboards and reporting to support deeper trend analysis and decision-making.

The team is also exploring improved visibility into simultaneous operations and contractor activity. Looking ahead, PLNL sees Evotix as a foundation for supporting long-term safety culture, operational discipline and continuous improvement.

The logo for EVOTIX, featuring the word "EVOTIX" in a bold, white, sans-serif font with a small dot above the letter 'I'.

EVOTIX

A rounded rectangular card with a light blue background. It features a map of North America with a red location pin over the United States. The text "US" and "Chicago" is displayed below the map. At the bottom, a white rounded rectangle contains the phone number "+1(872) 215 5913".

US
Chicago

Chicago

+1(872) 215 5913



UK

Manchester
Glasgow

+44 (0) 161 521 8490



AU

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Perth

+61 3 8595 5909

Let's chat

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Evotix is a global leader in environmental, health, safety and sustainability (EHS&S) software solutions for midsize and enterprise markets. With more than 25 years of experience and a global team of EHS&S experts, Evotix serves more than 800 customers worldwide across industries. Evotix's all-in-one, no-code platform centralizes incident management, audits, inspections and risk mitigation, automating workflows and digitizing procedures to enhance regulatory compliance and data management.

Evotix's mobile app provides workers with on-the-go training and safety guidelines to ensure they receive health, safety and sustainability information anytime, anywhere.