CASE STUDY

Chemical plant receives, picks and issues materials 30% faster with Octave Loop Material Readiness

Key facts:

Industry: Chemical

Country: USA

Octave products used: Loop Material Readiness *(Jovix)*, Barcode Labels, Mobile Devices

Key benefits:

- 30% reduction in time required to receive, pick and issue materials
- Contributed to 59% outside battery limits (OSBL) and 63% inside battery limits (ISBL) time on tools vs. industry standard of 34%

Jobsite Challenges

This $900 million chemical plant in Louisiana faced the following material and equipment challenges:

- **360,666 Linear Feet of Pipe:** Enough to stretch across more than 1,200 football fields
- **910 Concrete Piles:** Roughly the same weight as 1,240 fully grown elephants
- **1,503,295 Linear Feet of Cables:** Enough to extend from Baton Rouge, La., to Houston, Texas
- **611 Pieces of Equipment:** Anything from pumps and compressors to vessels and columns
- **4,704 Tons of Steel:** The equivalent of more than 9,400 telephone poles, 15,666 vending machines or 47,000 manhole covers
- **18,748 Cubic Yards of Concrete:** Stacked one on top of another would reach roughly 10.6 miles into the sky
- **40,481 Linear Feet of Cable Trays:** Placed end-to-end, the same length as 246 Olympic-sized swimming pools
- **22,987 Pipe Spools:** These tie each pipe together and the units couldn't run without them

Measurable savings

- 30% reduction in time required to perform receiving, picking and issuing of materials
- Contributed to 59% OSBL and 63% ISBL time on tools vs. industry standard of 34%

Deployment

Mobile Devices

Built to withstand harsh environments, rugged tablets and phones extend track and trace functionality into the field.

GPS

This project captured GPS locations for materials stored outdoors and used named locations for indoor materials.

Barcode Labels

Barcodes are an inexpensive method of tracking that are printed in the field with mobile printers.

Inspections

Inspections and preservation and maintenance activities are performed on mobile devices.

Integration

Data was integrated with construction planning and contractor enterprise resource planning systems.

Additional benefits

- Removed the need for double-handling of data
- No more receiving in the field via clipboard or data entry into the materials management system by a second person
- Fewer errors means fewer lost materials and reduced re-procurement
- One-click material pick for installation work packages
- Enabled project to maintain laydown staffing budget despite growing from one to three laydown yards
- Full visibility for frequency and success rate of preventative maintenance inspections

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

©2026 Octave Intelligence plc and/or affiliates. All rights reserved.