



Let's Solve



# Operator Driven Reliability Improves Plant Productivity by Reducing Unplanned Downtime for a US-based Refiner



A Larsen & Toubro  
Group Company

## Client

The client is a leading US-based refiner that operates 12+ refineries, with a net crude oil capacity of 2.0+ million barrels per day.

## Business Challenges

- ✓ Low plant productivity due to unscheduled downtime of non-instrumented equipment
- ✓ Paper-based data capture during operator rounds, causing extra time to feed the collected data into the system
- ✓ Lack of equipment history, operations and maintenance procedures, equipment diagrams, and operating history during operator rounds, making it difficult for operators to make on-spot decisions
- ✓ No evidence/confirmation of operator round completion except the paper forms

## Solution Highlights

- ✓ Identification, establishment and rationalization of ODR routes to cover all critical equipment within a plant
- ✓ Modernization of field operations by moving documented work from paper to mobile devices based on best-in-class ODR applications
- ✓ Integration of data on equipment operations & maintenance history, procedures, IOW & Alarm limits and equipment diagrams
- ✓ Utilization of field equipment tags to unlock, open relevant equipment details data gathering forms and round completion to establish evidence of actual field-based rounds
- ✓ Capabilities to handle operations rounds, lab sample collection & tagging, field inspections, maintenance workorder execution & HSE observations

## Business Benefits

**5-10%**

of increased workforce productivity

**30%**

increase in operator efficiency and field operations awareness

**50%**

reduction in unplanned breakdowns related to non-instrumented equipment

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