



## Case Study

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



## 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.



## 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



## LTIMindtree Solution

- ✓ 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 and maintenance history, procedures, IOW and alarm limits, and equipment diagrams
- ✓ Utilization of field equipment tags to unlock, opens 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 and tagging, field inspections, maintenance workorder execution and 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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