

# Regulatory compliance reporting

This workflow automatically generates regulatory compliance reports by collecting water quality data, validating against standards, and submitting reports to authorities. It ensures timely compliance while reducing manual data compilation and reporting errors.

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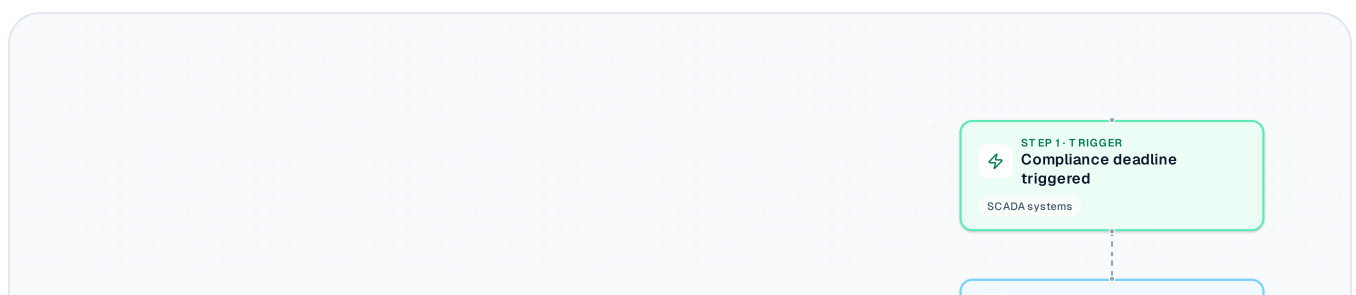


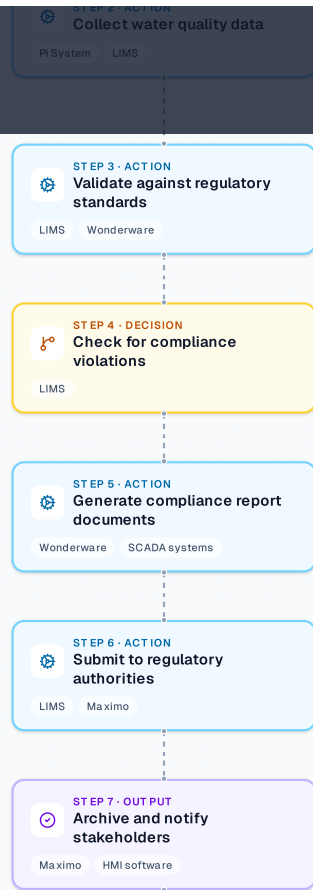
## WORKFLOW TRIGGER

Monthly regulatory reporting deadline approaches (scheduled trigger)

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





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## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

### Compliance deadline triggered

System automatically initiates the regulatory reporting process based on predetermined schedule (monthly, quarterly, or annual). Calendar-based trigger ensures no reporting deadlines are missed.

2

 ACTION

### Collect water quality data

Automatically extracts comprehensive water quality parameters including pH, turbidity, chlorine levels, and contaminants from process historians.

Data spans the entire reporting period with proper timestamps.

PI System

LIMS

3

 ACTION

### Validate against regulatory standards

Compares collected data against EPA, state, and local regulatory limits for each parameter. Identifies any violations, exceedances, or anomalies that require special attention in the report.

LIMS

Wonderware

4

 DECISION

### Check for compliance violations

Evaluates whether any water quality parameters exceeded regulatory limits during the reporting period. Routes workflow based on violation status for appropriate report formatting.

LIMS

5

 ACTION

### Generate compliance report documents

Automatically compiles data into standardized regulatory report formats including summary statistics, violation details, and corrective actions taken. Creates both PDF and electronic submission formats.

Wonderware

SCADA systems

6

 ACTION

### Submit to regulatory authorities

Electronically transmits completed reports to appropriate regulatory agencies through secure portals. Archives submission confirmations and maintains audit trail for compliance records.

LIMS

Maximo

7

 OUTPUT

### Archive and notify stakeholders

Stores finalized reports in document management system and sends notification to plant managers and compliance officers. Updates compliance tracking dashboard with submission status.

Maximo

HMI software



### Outputs

- Completed regulatory compliance report

- Violation summary with corrective actions

## AI Business OS



### Key Metrics

- On-time report submission rate
- Compliance violation count
- Report generation time reduction



### Tools & Integrations

- SCADA systems
- LIMS
- PI System
- Wonderware
- Maximo
- HMI software

## AI Business OS

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