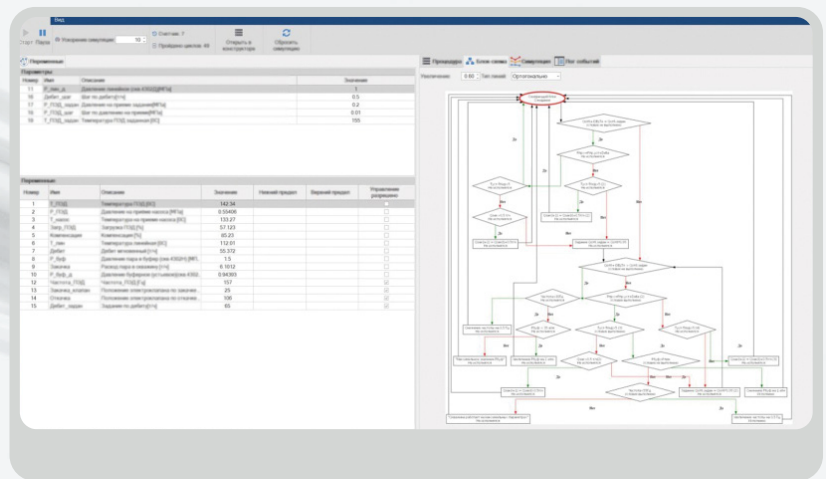




# APS

Advanced Process Control



## INDUSTRY CHALLENGES

[01]

Increase of operational efficiency

[02]

Maintaining high level of automation

[03]

Stabilization of process parameters

## BENEFITS OF APC



Increased end-product yield and extended service life of equipment



Optimized downtime, reduced power costs and environmental footprint



Decreased operators' workload, enhanced general safety

## DESCRIPTION

01

Real-time automatic control of the unit based on calculations of a multi-parameter model

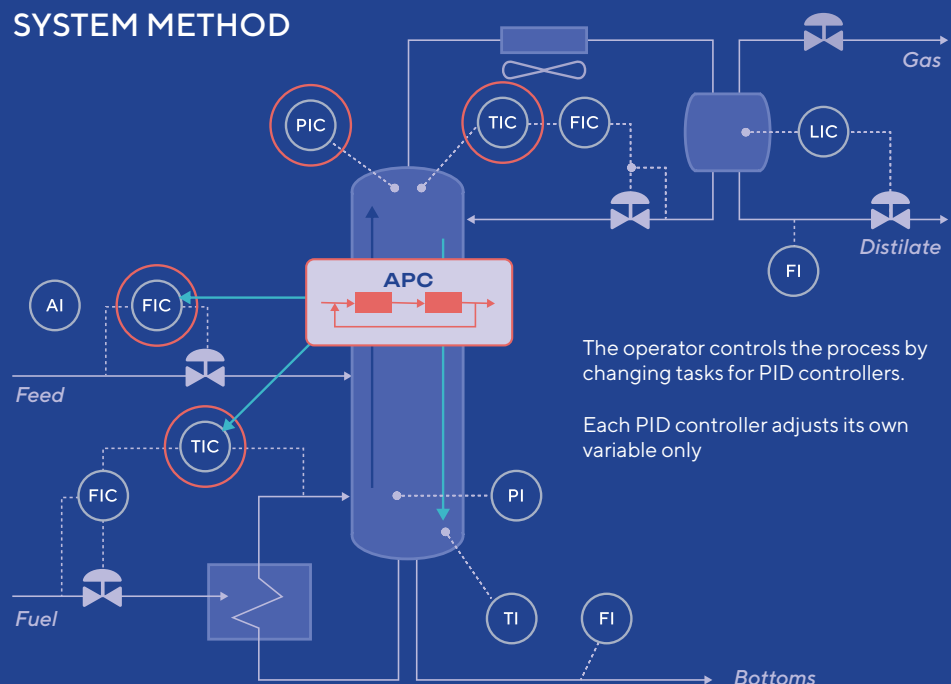
02

Reading process values from the APC's gauges and using OPC protocol to record the assignment to the APC's controller

03

Managing the process within set limits, taking into account the constraints of the current

## SYSTEM METHOD





ALMA Group is a reliable partner for oil and gas and oilfield service companies in the Russian Federation and worldwide

2017

Founded in



200+

In-house employees



35+

Projects delivered

Our Clients benefit from:

- In-house software
- AI and ML-based technologies
- Consulting and services in IT, operations, and management

### Consulting project

- Management
- Operations
- IT projects

### Engineering/custom software development and IT integration

- Pre-FEED, FEED
- WCT – Waterflooding control technology ———— ©
- Mitigation of geological risks
- CTC – Computer training complexes

### Project management

- PMC – Project Management Consulting)
- MAC – Main Automation Contractor
- Integrated planning ———— ©

### SCADA

Supervisory Control and Data Acquisition

- ALPA SOFTWARE ———— ©
- System integration based on partner products

ALMA

BUSINESS LINES

### Equipment reliability

- ASTRA SMS ———— ©  
Rotating equipment monitoring
- VR and computer training complexes
- Remote monitoring centers for rotating equipment

### Process control and computer modeling

- WellTrack – Workover and logistics automation ———— ©
- APC – Advanced Process Control ———— ©
- Modeling the processes for the development of production facilities digital twins or simulators for process operators

### Life cycle management for submersible equipment

- ESP remote monitoring centers
- CycleOp product solution ———— ©
- Well performance analytics, selection of equipment, digital product passport, predictive failure analysis
- Academy of artificial lift well stock
- Competence center for artificial lift well stock