

SIMULATION TOOL

Resulting from Prayon processes and operation expertise, this tool can be seen as a reproduction of a plant behaviour and operating conditions over time. **It simulates the real DCS graphics, controls, interlocks and integrates Field Operated Devices** such as motors, local control panels, manual valves, some visual inspections, and sampling.

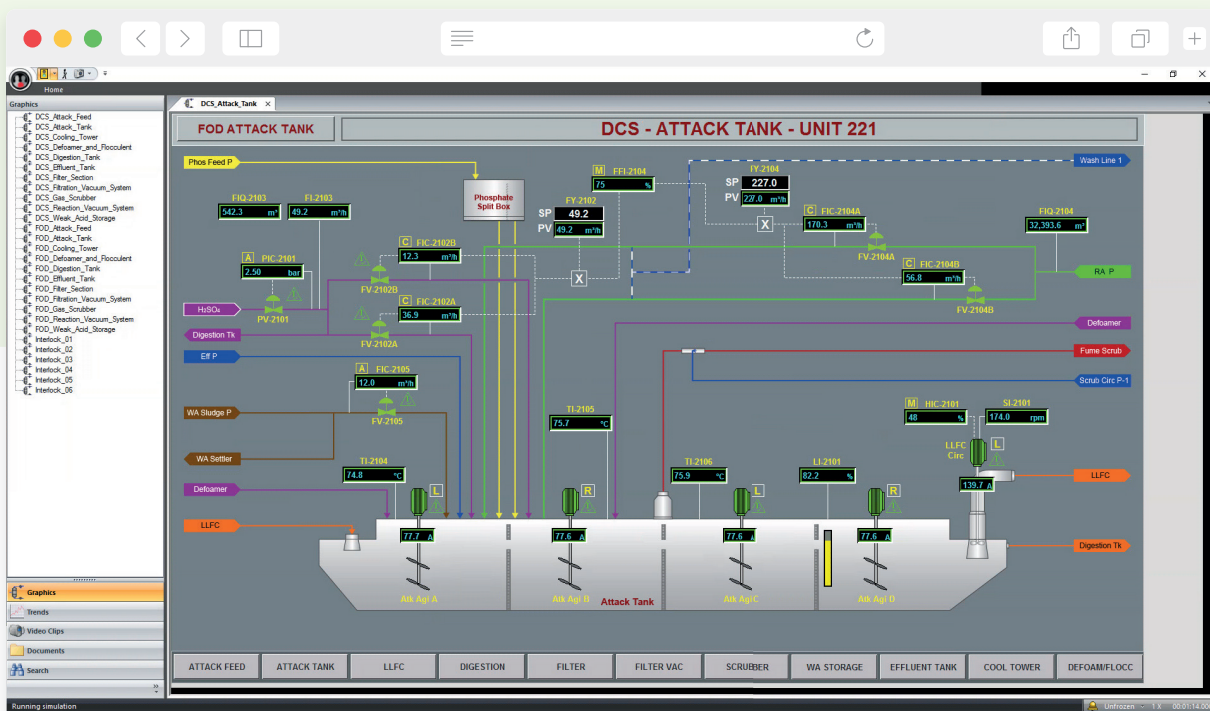
Simulation scenarios improve operation **skills** of plant operators (process understanding, diagnosis and anticipation capabilities) and contribute to the **operational excellence** and **safety improvement** required to operate nowadays chemical plants.

14 MODULES

Get a deep insight in a phosphoric acid plant by discovering 14 modules, from **Fundamentals of Chemistry, Phosphate types and impurities, P₂O₅ losses**, to the main sections composing a phosphoric acid plant such as **Attack-Filtration, Concentration, FSA recovery and Acid clarification**.

BECOME AN EXPERT

- + **LEARN** the process fundamentals from Prayon know-how and expertise
- + **UNDERSTAND** and **REACT** to abnormal situations
- + **EXPERIMENT** plant control and start-up procedures with DCS environment
- + **ACQUIRE** practical knowledge from specific scenarios



PRAYON TECHNOLOGIES PROCESSES & SERVICES RANGE

PHOSPHORIC ACID PRODUCTION

- + Dihydrate Process (DH)
- + Hemihydrate Process (HH)
- + Di-Attack-Hemihydrate-Filtration Process (DA-HF)
- + Central-Prayon Process (CPP)
- + Hemihydrate - Dihydrate Process (HDH)

ANIMAL FEED

- + DCP/MDCP/MCP HCl based Ecophos Process
- + MCP/MDCP from Pre-Treated Phosphoric Acid

SUSTAINABILITY

- + Secondary P-Sources
- + Spent Acids Recycling

PHOSPHORIC ACID TREATMENT

- + Ion Exchange Demetallization
- + Desulfation (SO₂)
- + Desarseniation (As)
- + Decadmiation (Cd)
- + Defluoration (F)

TECHNOLOGIES ASSOCIATED TO PHOSPHORIC ACID PRODUCTION

- + Concentration Process
- + Gas Scrubbing Process
- + Fluorine Recovery Process

CHEMICAL BENEFICIATION

- + GetMoreP Upgraded Rock
- + Ecophos Upgraded Rock
- + Mg Leaching

SERVICES

- + Licensing
- + Lab & Pilot Tests
- + Semi Industrial Validation
- + Training
- + Site Services
- + P2Gether Plant Performance Optimization
- + Technical Surveys



Prayon
Technologies

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WWW.PRAYON.COM

Prayon Technologies S.A.

Tel.: +32 4 273 93 41

prt@prayon.com | www.prayon.com/technologies

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