

RHODIA Saint Fons, France

COLEOP'TERRE Project - Chemistry



Contact:

EKIUM
5 allée des droits de
l'Homme
69673 BRON
France

Phone: +3(0) 4 72 81 50 50

Founding year:

1990

Employees:

600

Solution
Partner

SIEMENS

Automation

Solution Partner : **EKIUM**
Customer : **Rhodia**
Segment : **Chemistry**

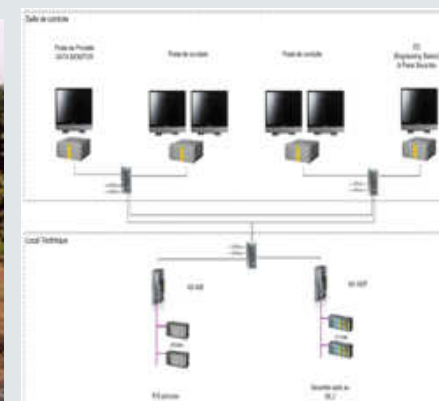
Requirements of the customer:

- Rhodia Saint-Fons plant is specialized in fabrication, packaging and storage of active and intermediate organic products for pharmaceuticals, agrochemicals, fragrance and flavors and photography.
- The purpose of the pilot unit COLEOP'TERRE is to recycle "Rare Earth" contained in low energy lights bulbs.
- **The process consists of :**
 - Three reactors,
 - One relay tank,
 - One dryer,
 - One mixer and one conditioning chain



Short description of the solution:

- Conduct by Batch processing
- Management of securities through a Safety Integrated System (SIS) independent of the DCS system which controls the process
- Flexibility of modifications
- Evolves systems
- Traceability of modifications
- Historical data handling



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Implementation by the Solution Partner:

❖ Studies:

- Participation at the realization of RHODIA specific standards
- Realization of a benchmark

❖ Development:

- Configuration of SIEMENS PCS7 system (control and monitoring)

- Electric studies of DCS and SIS cabinets
- Fabrication of DCS and SIS cabinets : 5 socomec cabinets (3 standard cabinets and 2 security cabinets)
- Platform tests (FAT)

❖ Redaction of the project documentation:

- File of executing works (DOE)
- Exploitation manual
- Maintenance and Operators training
- Synchronization test/Commissioning/SAT

❖ Hardware used:

- DCS system: SIEMENS PCS7 V7.1
- Controllers: AS-416H (standard) and S7- 414FH (for safety)
- Networks: Industrial Ethernet, Modbus TCP, Modbus RTU
- Station: 2 Operator stations , 1 engineering and safety station, 1 DATAMONITOR station

Benefits for the customer:

▪ Some figures :

- 328 E/S
- 21 SFC_Types for 60 phase instances
- 9 units
- 21 synoptics
- 1 Safety matrix
- 2500 hours during 4 months

