



End User: Lyondell Chemical R&D

Location: Newtown Square, PA

Integrator/Supplier: Sixnet

SCS Partner Contact: Bob Williamson

SCS Partner Contact Email: BobW@sixnetio.org

Introduction:

Lyondell is a leading producer of propylene oxide (PO) and PO derivatives, including propylene glycol, butanediol and propylene glycol ethers, ethylene, propylene and polyethylene, and methanol.

Scope of Project:

DCS for new multi-unit pilot plant.

Solution:

DCS system with Industrial Ethernet LAN ... ST-IPm-6350 DCS Controller with local SixTRAK IO at one process unit ... 5 other units have 'remote IO' using SixTRAK IO connected thru ET-GT-ST-2 IO Concentrators. 100+ IO modules, 800+ physical IO. Cat5 Industrial Ethernet LAN uses 5- and 9-port switches. WonderWare HMI connected thru KEPServerEx with Sixnet protocol driver. TrakPAK packaged systems by Sixnet.

Products Used:

Qty	Part Number	Description	Qty	Part Number	Description
	ST-IPm-6350	DCS Controller		ET-GT-ST-2	I/O Concentrator
	ST-AI-8INS-08U	Analog Inputs		ET-GT-5ES-1, 9ES-1	Ethernet switches
	ST-AO-20M-08U	Analog outputs		STS-PS-024-02N	Power supply
	ST-DI-120-08U	Discrete inputs		PAK4836	Packaged system
	ST-DO-AC1-08U	Discrete outputs		WonderWare HMI	Software
	ST-DO-RLY-06U	Relay outputs			

Resulting Benefits:

Lyondell (formerly Arco Chemical) is a long-time Sixnet user, now using their 3rd generation of Sixnet products. Two previous pilot plant control systems used IOMux with SCIL programming and legacy SixTRAK Programmable Gateways with ISaGRAF. This new system extends Sixnet's historical superiority over traditional DCS and PLC suppliers in providing the requisite adaptability and flexibility for efficiently operating pilot plants ... and at considerable economic benefit. All have been procured from Sixnet as a single source of supply for TrakPAK packaged systems, ready for electrical/mechanical installation and programming.