



Foxboro IA DCS

Introduction

Microfusion has extensive experience working with the Invensys Foxboro IA series DCS in the Power and Utility Industry. Microfusion personnel have worked both as the design, and the DCS commissioning team on many projects that validate and improve upon the basic designed provided by the equipment vendors.

Recent projects include:

Pulverized Coal fired plant Controls Improvement

Configured the Foxboro system of the combustion controls, drum level controls, boiler master logics, and unit master with turbine coordinated control mode of a 370 MW pulverized coal unit, including HMI graphics and logic diagrams using Foxboro IA 10.1 system.



PC Boilers NOx Reduction



Implemented the NOx Reduction scheme on three pulverized coal boilers using Griffin's NOx reduction optimization software that controls SOFA, CCOFA, AA dampers, feeder speeds, O2 Trims, windbox pressure, and burner tilts in the Foxboro IA V8.7 system.

FGD Configuration and Commissioning

Improved and commissioned two 700MW capacity FGD units with absorbers, ball mills, filter presses, limestone conveyers and the gypsum system in Foxboro IA-V8.4 systems.



Recovery Boiler Configuration and Commissioning



Configured and commissioned the IA combustion control system, integrated with a ControlLogix BMS for a recovery boiler for a major pulping company. The tasks included condensate system, drum level controls, superheater temperature controls, and evaporators and black liquor controls.