

AML**Switchgear**

Project Profile

Project: Rendering Plant Process MCC
Location: South Canterbury By-products Timaru
Client: G Tech Bellmor
Consultant: G Tech Bellmor
Project type: Design Build Process MCC & Controls

Man hours: 1,100
Duration: 5 months
Completion Date: Jul-09

Description of Site

G Tech Bellmor engineering were contracted by South Canterbury By-products to build them a new processing plant at Seadown, Timaru, to replace their existing 100+ year old plant in Washdyke.

The proces consisted of a 12 Tonne/hr disc dryer, ovine, bovine and porcine rendering plant using equipment predominantly designed and manufactured by G-Tech Bellmor in their Christchurch factory.

The well designed process yields high quality tallow and meal.

Description of Project

AML Switchgear were contracted to design and build the Rendering process control MCC for G Tech Bellmor. With a power requirement of 2500 amps, AML Switchgear chose to build a double sided MCC from the CUBIC fully type tested switchboard system to form 3b. The almost 100 motors ranging from 0.37kw to 180kW were controlled by DOL starters, Rockwell Powerflex variable speed drives and SMCflex soft starters via Ethernet communications back to the central PLC located within the CUBIC MCC.

Various field control stations & Junction boxes, constructed of 316 stainless steel, were also manufactured .

Two large CUBIC Automatic Power Factor Correction units were also installed to maintain the PF to 0.98

The project was completed on time and within budget.

