



Drier number 1 & 2 during and before conversion.

Mr Frikkie Eysel, Fishmeal Production Manager of United Fishing Enterprises, Walvis Bay was having endless problems with his Rotary Cup burners and needed to ensure savings and less down-time during 2005 fishing season.

Rentech came up with solution to remove existing old Hamworthy Rotary Cup burners and use newer Hamworthy Rotary Cup burners from companies redundant 20 ton twin flue boiler with the inclusion of Autoflame Conversion. The project called for control of 4 channels, namely Fuel, Primary Air, Secondary Air and Forced Draft Fan control with the inclusion of External Load control allowing operator to remotely control burner firing rate from nearly 50 meters away from main electric panel. It was also important to convert existing Induced Draft Dampers to full PID control with the use of Autoflame 400Nm Industrial Servo Motor, this to ensure that draft inside drier is maintained at set value irrespective of product quantity inside drier. Finally a Data Transfer Interface unit was installed to ensure logging of various parameters that are critical for Inspection Authorities for EU requirements, these logs are saved on computer hard drive and can be viewed when needed.



This conversion for the first time made use of the existing Hamworthy fuel pump, allowing for better control of the fuel pressures with the use of an additional external regulating valve. Depending on firing rate burner will use different amounts of fuel, the regulating valve ensures that preset pressure is maintained during various firing rates.



Drier number 1 after conversion

Each burner control panel is fitted with Autoflame Mk 6 Evolution Combustion Management System, capable of positioning the fuel and air control elements to a repeatable accuracy of 0.1 degree angular. Precise positioning ensures optimum combustion at all times, coupled with locked on temperature control guarantees just enough fuel is burnt to meet the process heat requirement.

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The system is now fully automated, burning 31 % less fuel and allowing operators to get on with production and have peace of mind that plant is operating under peak performance, ensuring maximum savings and no downtime during operation.



Drier number 2 after conversion

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