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Project Pumping Station Campen
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System desdcription 1

Campen is a small part of the city of Hulst, near the Scheldt.
Campen station pumps water out of the polder to the Scheldt.
We are talking about spectacular power and flow rates here ...
A water cooled, slow turning 400 kW motor is used to operate the pump.
The valve that closes the pressure pipe, is 1,5 meter in diameter.

The puming station has 2 of these pumps.
One is operated by a diesel engine, the other one by a new electro motor.
This last pump used to be driven by a diesel engine as well, but it broke down.
During a power cut, the engine kept on running.

Because the cooling was electrical, the engine got over-heated and water got into the cylinders.
This caused the engine to explode.

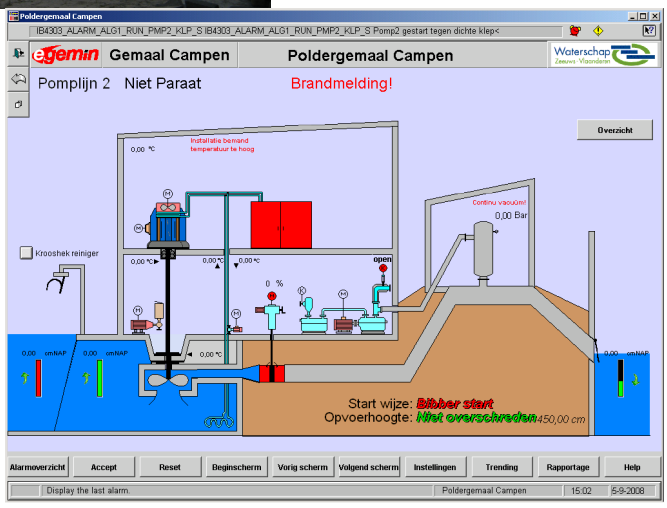
The SCADA is accessible from anywhere through ADSL.
The PLC also notifies a central station that sends out a text message to the technicians in case of potential alarms.

In short;

- SPECTACULAR
- New engine
- Old engine exploded
- Accessibility

On a chilly but sunny morning, a parcel arrived from far away Czechia ...
A slow running, asynchronous, 14-pole, water cooled 400 kW motor ...
Using a 50 ton crane, it was lifted out of the truck.

One of the screens.

When the motor has to start, the pipe is pulled to vacuum; that's when the water runs into the pressure pipe.

Once the level is reached, the pump can start.
A water cooled frequency drive operatess the pump; this drive is 4 Rittal cabinets wide.