



# ITT

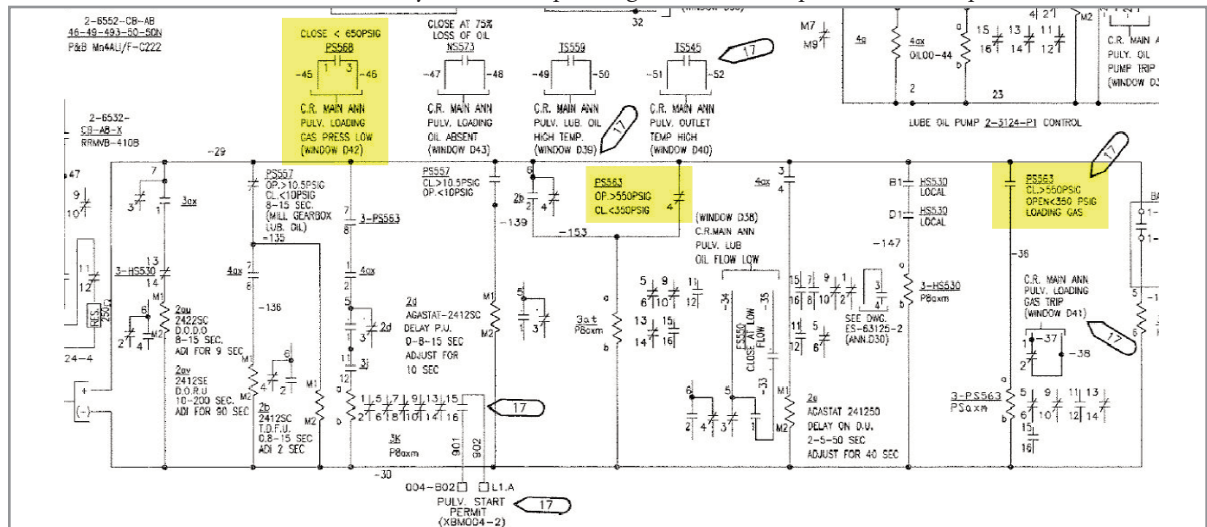
# Neo-Dyn®

## Nitrogen Blanketing on Coal Pulverisers'

An ITT Neo-Dyn Differential Pressure Switch Application story

A coal-fired power plant was unsuccessful in locating pressure switches with wide differentials (deadbands) that were capable of handling up to 250VDC on the relay contacts. Their application required two switches; one switch providing a critical set point that closed @ 350 PSIG falling and opened (reset) @ 550 PSIG rising. The second switch had a critical set point that closed @ 650 PSIG falling. The application is for controlling the nitrogen blanketing pressure on the loading balls used to pulverize their coal. The inert nitrogen gas is used to reduce the possibility of explosions / fires due to the presence of coal dust. They require two switches per pulveriser and have a total of twenty units on site.

Originally, the customer requested an adjustable set-point due to calibration issues with other suppliers. After demonstrating the features and benefits of the Belleville disc spring technology, and it not needing to be re-calibrated, they were sold on our product.. Because of the specific deadband requirements for this control application, we recommended our Neo-Dyn® 125P Series. This switch is capable of handling 200mA at 250VDC when utilizing our M option (Gold contacts). Our model 125P1C6M was selected and as they are now updating each control panel on their pulverisers.



*Remember the "Questions To Ask" section of your training and switch selection guide! The first question to ask is if they require an adjustable set point. This leads them right into the sale as they will tell you why they need it (i.e. they problems they have). It's usually set point drift due to a poor quality supplier, overpressure, temperature drift or drift due to vibration. All of these are overcome by the ITT Neo-Dyn Belleville technology. You can then focus on their concern and close the deal!*

Engineered for life

For more information, please visit [www.neodyn.com](http://www.neodyn.com)