

## ENGINEERING BULLETIN

Ref Document No.	EB15007	Issue No.	1
Subject	Hydraulic Tank Level Sensor Pneumatic Tubing		
Release Date	10 <sup>th</sup> April 2014		

**Purpose** – Advise COALTRAM® owners of areas of improvement

**Applicability** – All in service COALTRAM® models

### Background

PPK has been made aware of the clear pneumatic tubing that connects to the hydraulic tank level float becoming loose and falling off.

### Investigations/Findings

The hydraulic tank level float detects the fluid level inside the tank and acts as a 3/2 valve to control the air flow to a MONEx pressure sensor. When the hydraulic fluid level is above the float air is allowed to pass through the valve and apply pressure to the MONEx sensor. When the level is below the float the air supply is cut, removing air pressure from the sensor. The ports on the float are small, therefore, require small diameter pneumatic tubing.

The FEP tubing used has a history of falling off the flared nipple to which it is connected.

PPK have had success using PTFE tubing as a replacement. PTFE has a higher temperature working range than the FEP tubing and is highly non-reactive.



*Figure 1: PTFE tubing installed*

### Recommendations

1. PPK recommends replacing the existing tubing with the PTFE tubing (part No. 5520009568) when necessary.
2. Follow SWP to replace tubing.
3. The PTFE tubing (5520009568) is currently available from PPK.

### PPK Technical Department

PPK Mining Equipment Pty Ltd

T: +612 4964 5400

13B Old Punt Rd,  
Tomago, NSW, 2322

PO Box 339

HRMC, NSW, 2310