

ENGINEERING BULLETIN

Ref Document No.	EB20002	Issue No.	1
Subject	Anderson/Wright 120G Grader Braking System Stored Energy		
Release Date	22 nd April 2020		

Purpose – Advise owners and operators of Anderson/Wright 120G graders of risks identified related to the 120G braking system.

Applicability – All in service Anderson/Wright 120G explosion-protected graders.

Background

- A recent design review of the 120G braking system has identified the following:
- The grader’s service and parking brake systems are both dependent on stored energy in the form of pneumatic pressure.
 - Consequences of low pneumatic pressure could include:
 - Dragging of transmission park brake due to pressure that is insufficient to fully actuate park-brake release rotochamber.
 - Dragging of brakes can lead to premature wear and high surface temperatures.
 - Insufficient service brake actuation force, leading to decreased service brake performance.
 - Most currently installed Anderson 120G pneumatic systems do not contain a low-pressure alarm for either the main or brake air receivers.

Recommendations

- Owners/operators are advised to review the risks identified in this bulletin.
- It is recommended that a low main air pressure warning device be fitted. Alternatively, a device/system which automatically brings the machine to a stop in the event of low main air pressure may be used, provided appropriate risk reviews are conducted.
- Owners/operators are also advised to obtain the latest documentation from PPK relating to the 120G grader, including service sheets, safe work procedures etc.

Engineering Department
 PPK Mining Equipment Pty Ltd
 T: +612 4964 5400
www.ppkgroup.com.au