





## Plant Risk Control Plan

Plant Details	Details	Date of Assessment	
Name of Device	QMR Dynamic Pressure Sensor	12 <sup>th</sup> March 2017	
Purpose	<p>The purpose of the QMR Dynamic Pressure Sensor is to measure pressure induced in the product from detonation of surrounding holes.</p> <p>The sensor consists of a pressure sensor embedded in epoxy. The assembly is 13.5mm in diameter and 52mm long and is attached to a co-axial cable.</p> <p>This signal is a possible maximum of 0.0053 amps at 2.5VDC which is less than 0.2 amps (1 Ohm/0.2V, 55 Ohm/11V or 120 Ohm/24 V), which is considered the “No Fire” basic power requirement for electronic detonators.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>		
Licence number and date of expiry			

<b>Model/Serial/Asset Numbers</b>			
<b>Environmental Conditions and Terrain if applicable</b>			
<b>Plant Hazards/Issues</b>	<b>Control Measures</b>		
Main Hazards and their Controls (from hazard Checklist)	Activity	Hazard	Control
	Placing pressure gauges in hole	Manual handling	Light weight design Lift according to safe lifting practices
	Taking pressure measurements	Low voltage electricity applied to in hole transducer for 20 seconds	Low voltage electricity used, below that recommended by explosive manufactures Equipment designed fit for purpose
Other hazards associated with hazards and their Controls			
Hazardous Substances used with Plant	Nil		
Gases used with Plant	Nil		
Occupational Hygiene Controls	Manual Handling		
Radiation source used with Plant	Nil		
Other			

Any infrastructure/Installation changes required	
Operating Controls	<input type="checkbox"/> Signage <input type="checkbox"/> Hazardous Substances manifest/register Yes/No <input type="checkbox"/> Supplier MSDS' Yes/No <input type="checkbox"/> Isolation/Lock out required Yes/No <input type="checkbox"/> Flow restrictors/Cut out switches Yes/No <input type="checkbox"/> Specialised Regulators _____ <input checked="" type="checkbox"/> Manual handling - Use correct procedure for lowering apparatus into hole <input type="checkbox"/> SOI to be developed Yes/ No <input type="checkbox"/> Training specify  <input type="checkbox"/> Personal Protective Clothing and Equipment – nil  <input checked="" type="checkbox"/> Other (explain) Visitors to wear tag and always remain with supervisor
Isolation Requirements	NIL
Mobile Plant	<input type="checkbox"/> Licence to operate _____ <input type="checkbox"/> Garage/Storage requirements _____ <input type="checkbox"/> Signage _____ <input type="checkbox"/> Personal Protective Equipment – Specify  <input type="checkbox"/> Other (explain) _____
Emergency Controls	<input type="checkbox"/> Emergency Instructions Yes/No _____ <input type="checkbox"/> Training – specify _____ <input type="checkbox"/> Emergency Equipment – Specify _____ <input type="checkbox"/> Fire Fighting Equipment – Specify _____

	<input type="checkbox"/> Spill kits available _____ <input type="checkbox"/> Personal Protective Clothing Equipment _____ <input type="checkbox"/> Self-contained breathing apparatus / escape unit _____ <input type="checkbox"/> Other _____
Waste Disposal Controls	
Contacts:  Site HSE Officer   Work/Area Manager	Name: _____   Name: _____