

## OPPORTUNITY BRIEF FOR INFRASTRUCTURE



SUMMARY				
Definition of the opportunity or issue being highlighted. Initiator please complete the following fields.				
<b>Title:</b> *	Watson Pressure Limiting Station			
<b>Project Initiator:</b> *		<b>SAP WBS:</b>		
<b>Inquiry Number:</b> *	1.00227e+007	<b>Service Type:</b> *	CAPEX_Stay in Business	
<b>In Regulatory Allowance:</b>		<b>Asset:</b> *	ActewAGL	
<b>Opportunity:</b> *	<p>Sections of the Canberra Primary Main were first commissioned in the mid-late 1990's with an Maximum Allowable Operating Pressure (MAOP) of 6,895kPa. As Canberra has continued to grow, the surrounding dwellings have begun to encroach in the vicinity of the pipeline, hence changing the location class with recent developments (such as Childcare Centres) to be classified as T2 (high density) sensitive areas.</p> <p>AS 2885.1 requires that pipeline rupture must not be a credible failure mode in High Consequence Areas and the hoop stress at MAOP shall not exceed 30% of SMYS. Sections of the Canberra Primary Main exceed this requirement at both the MAOP and current Maximum Operating Pressure (MOP) of 5,800kPa.</p> <p>The maximum rate of gas release from a leak is also limited by AS2885 which is no acceptable within the T2 location classes along the Canberra Primary Main.</p>			
<b>Objective:</b> *	The objective is to de-rate the current MAOP of the Canberra Primary Main pressure from 6,895kPa to 4,500kPa by installing a pressure limiting station at Watson.			
<b>Project Justification:</b> *	<p>Although current controls such as depth of cover and pre-cast concrete slabbing exist across the primary main in mitigating the threat, the consequence of rupture or allowable rate of gas release still exists with an excavator greater than 10tonne.</p> <p>Hence, by limiting the Canberra Primary to 4,500kPa and in turn, lowering the operating hoop stress below 30% SMYS, the AS2885 requirements for no rupture pipeline will be adhered to and provide an effective long term solution and risk reduction.</p>			
	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Integrity	<input checked="" type="checkbox"/> Compliance	<input type="checkbox"/> Business Development
		<b>Asset Risk Rating:</b> *	Significant	<b>Solution Required By:</b> *
				31/05/2023

OPTIONS CONSIDERATION			
List of potential options to resolve the issue or opportunity. Include both options considered and rejected.			
	Option Description & Assumptions	Delivery Risks & Constraints	Cost Estimate
<b>Option 1 (Preferred):</b>	Install a Pressure Limiting Station at Watson to operate t...	The operating philosophy will require to be robus...	\$2,300,000
<b>Option 2:</b>	Relay the sections of the Canberra Primary Main (approx...	The logistics and cost of this project would be det...	\$128,000,000
<b>Option 3:</b>			
<b>Do Nothing:</b>	Maintain Status Quo, install additional marker signage al...	This is only a short term solution and not an acce...	
<b>Comments:</b>	The installation of a Pressure Limiting Station at Watson may bring forward the Phillip PRS Upgrade project, due to the lower operating pressures of the Canberra Primary Main.		

PROJECT SCHEDULE			
Initial view of the key milestones of the project, as well as approver and responsible group.			
	Gate & PMM Phase	Target Date	Comments
<b>Project Schedule:</b>	Gate 1 - Initiate		
	Gate 2 - Plan & Define		
	Gate 3 - Plan & Define		
	Gate 4 - Deliver		
	Gate 5 - Deliver		
	Gate 6 - Deliver		
	Gate 7 - Close		




**FINANCIAL FORECAST**

Financial overview of the project, providing an oversight on how much the project is expected to cost against the AMP budget allocation.

**Project Estimate:\***  This value is automatically populated with the value from Option 1 (Preferred) Cost Estimate under Options Consideration.

**REFERENCED DOCUMENTS**

Please note hyperlinks must begin with "http://"

Document No.	Title	ECMS Link / Reference
1	<input type="text"/>	
2	<input type="text"/>	
3	<input type="text"/>	
<b>Additional Attachments</b> <i>(Please ensure attached documents are included in project folder)</i>		

**APPROVAL**

Approver	Title	Name	Approval
<b><u>Recommended By</u></b>	Project Initiator*		<input type="text"/>
<b><u>Agreed By</u></b>	Asset Strategy Representative*		<input type="text"/>
<b><u>Decided By</u></b>	Asset Investment Manager (AMP)/ GM Commercial (Commercial)*		<input type="text"/>

**COMMENTS**

Please fill in all highlighted fields

Print Gate

Outstanding Approval

✓ Title Related Content Created

There are no items to show in this view of the "Tasks" list.