



Risk Assessment: Ampol pipelines with WSU ICOE development

As per AS2885.1 - 2012
Appendix C

Management Process as per AS2885.1 - 2012

Threat		Threat Identification						Threat Control	
ID	LS/NLS/Rep	Category	Source	Description (cause of threat, what/how)	Potential Impact/s (for Failure analysis)	Credible?	If Not Credible; Reason	Other Controls	Threat Controlled?
1	LS	External Interference	Loading over pipeline	Loading from heavy plant crossing during construction.	Overstressing of pipeline leading to ovality or failure	No	No access to/via Easement required. WSU ICOE site across will be via Fifth St		
2	LS	External Interference	Loading over pipeline	Loading from new road/s over easement	Overstressing of pipeline leading to ovality or failure	No	No new crossings or changes		
3	LS	External Interference	Crane lifting over pipeline	Potential dropped loads onto easement	Overstressing of pipeline leading to failure	No	No cranes / lifting required over easement - all within WSU plot		
4	LS	External Interference	Excavation for construction activity <u>inside</u> Easement	Site construction using mechanical excavator, accidentally hits pipeline	Accidentally hits pipeline, resulting in damage and/or penetration	No	Nil construction required in easement.		
5	LS	External Interference	Excavation for construction activity <u>outside</u> Easement	Civil works using mechanical excavator, accidentally hits pipeline	Accidentally hits pipeline, resulting in damage and/or penetration	Yes		1. Concept design completed - all ground works in WSU site across road from pipeline 2. Ampol supervision for any works within 5m of pipeline	Yes
6	LS	External Interference	Utility installations	Boring / HDD or trenching for utility connections as part of WSU site development Eg sewer, water, gas, NBN, comms	Inadvertent contact with pipeline, resulting in coating damage or gouging of pipeline, requiring pipeline repair	No	No new utility connections across pipeline easement. All services connected from within WSU site.		
7	LS	External Interference	Vibration - from site works	Sources of vibration from DA construction; demolition, piling, compaction	Could result in coating damage and/or welds, with subsequent failure	Yes		1. WSU provide piling design & methodology to Ampol for assessment 2. Monitoring within 20m of pipeline	Yes
8	LS	Corrosion		Electrical Interference Stray currents or effects from HV sources / sub-stations etc	Impact to pipeline CP system effectiveness, results in corrosion to pipeline	Yes		1. Ampol to advise if new sub-station requires a CP impact study	Yes