



ADDENDUM

Epic Energy's ADDENDUM TO THE 2003 Moomba to Port Bonython Liquids Pipeline (PL2) ANNUAL REPORT

5.2 MANAGEMENT SYSTEMS

During the reporting period, the management team participated in a range of activities designed to raise awareness of the many and varied requirements of operations and maintenance teams, to ensure that Epic Energy complies with AS2885.3 2001, legislative requirements and contractual obligations.

These activities included;

A Leadership Workshop (conducted at Mount Lofty House in SA) which was designed to update the leadership team on such issues as strategic direction, company values, management direction and to provide an opportunity for individual teams to update the wider groups of events that may be happening in their area.

An Operational Support Services Workshop conducted at Epic Energy's head office in WA. This workshop brought the maintenance teams together to discuss any issues they felt may be hindering the overall the performance of the group to meet their AS2885 requirements as well as legislative and contractual obligations.

A Business Planning/Budget process. An annual process that is carried out in September to ensure Epic Energy has the next years activities planned and budgeted for.

Section 5.2 also identified that a number of staff were recruited or left the organization during 2003.

The following comment clarifies the statements that were made in the original report.

Human Resource Management - During the reporting period a number of key personnel left the organization. Replacement staff, with the appropriate levels of training, experience and qualifications have since been recruited to ensure Epic Energy's maintenance teams have the correct mix of skill and experience enabling them to meet AS2885.3 2001 requirements.

SEO assessment criteria – refer also to http://www.pir.sa.gov.au/pages/petrol/environmental_reg/documents/pt_bonython_seo_nov2001.pdf

ASSESSMENT OF DECLARED OBJECTIVES

Liquids Line Objectives and Assessment Criteria¹

OBJECTIVE	GOAL	MEASURE / HOW	ACHIEVED/NOT ACHIEVED	COMMENTS
1. To avoid unnecessary disturbance to 3 rd party infrastructure, landholders or land use	1.1 To minimise disturbance or damage to infrastructure / land use and remediate where disturbance cannot be avoided	Disturbance to infrastructure (eg. such as fencing or access tracks) occurs less than once every five years.	Achieved	No operational activities occurred on the pipeline during the reporting period and therefore this objective is considered to be achieved.
	1.2 To minimise disturbance to landholders	Access to private property occurs more often than once a year in accordance with landowner agreements.	Achieved	During the reporting period no operational activities that impacted on the landholders occurred.
2. To maintain soil stability/integrity	2.1 To remediate erosion as a result of pipeline operations in a timely manner	The extent of soil erosion on the easement was consistent with surrounding land.	Achieved	The pipeline is patrolled routinely (immediately after any significant amounts of rainfall have occurred) and any erosion noted is repaired in a timely manner. During 2003 minor flood damage sustained at creek crossings has been rectified.

¹ Assessment criteria have been developed to be “black and white”. Professional judgement is required to assess whether non-compliance is minor or major. It is necessary to ensure that adequate information is available to enable this judgment to be made.

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	2.2 To prevent soil inversion	Annual land survey to look for soil discolouration, success of vegetation return as an indicator. Disturbance checklist signed off to indicate top soil/subsoil are stockpiled separately and soil profiles appropriately reinstated following the re-instatement of works/excavations.	Achieved	No excavations or other activities which could have resulted in soil inversions have occurred during the reporting period.
3. To maintain native vegetation cover on the easement	3.1 To maintain regrowth of native vegetation on the easement to be consistent with surrounding area	Off ROW vegetation clearing limited to previously disturbed areas or areas assessed to be of low sensitivity. Area of disturbance has been minimised. In event of pipeline repair, open trenches are monitored daily and not left open for more than 72 hours.	Achieved	The condition of the native vegetation within the pipeline easement is consistent with the surrounding vegetation.
	3.2 To minimise additional clearing of native vegetation as part of operational activities	Off ROW vegetation clearing limited to previously disturbed areas or areas assessed to be of low sensitivity. Area of disturbance has been minimised.	Achieved	No Operational activities were conducted during the reporting period which would impact on the native vegetation.
	3.3 To ensure maintenance activities are planned and conducted in a manner that minimises impacts on native fauna	Species abundance and distribution in such areas was consistent with the surroundings. Follow-up restoration work was undertaken as necessary.	Achieved	Maintenance activities during 2003 that may have had an impact on the native fauna were minimal and were conducted so that no impact was felt.

OBJECTIVE	GOAL	MEASURE / HOW	ACHIEVED/NOT ACHIEVED	COMMENTS
	3.4 To minimise disturbance of marine habitats	Not relevant for this pipeline	Achieved	No leakages or spillage was reported or recorded in any area where a marine environment exists.
4. To prevent the spread of weeds and pathogens	4.1 To ensure that weeds and pathogens are controlled at a level that is at least consistent with adjacent land	The presence of weeds and pathogens on the easement was consistent with adjacent land.	Achieved	The presence of weeds and pathogens on the easement was consistent with adjacent land.
5. To minimise the impact of the pipeline operations on surface water resources	5.1 To maintain current surface drainage patterns	Surface drainage has been restored and maintained to preconstruction condition.	Achieved	During the reporting period no alterations have been made to the landscape through which the pipeline traverses and therefore current drainage patterns have been maintained.
6. To avoid land or water contamination	6.1 To prevent spills occurring, and if they occur minimise their impact	Spill protection methods are used. All liquid waste is contained within impermeable containers or containment. No evidence of any spills or leaks from operations.	Achieved	No spill or leakages have been recorded during the reporting period along the pipeline easement or at any of the facilities.
	6.2 To remediate and monitor areas of known contamination arising from pipeline operations	No evidence of rubbish or litter on ROW or at facilities. Waste material is appropriately contained disposed of. There is not evidence of any contamination. Records are maintained for all hazardous waste disposal.	Achieved	There are no areas of contamination occurring as a result of the pipeline operations.

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	6.3 To prevent the spread of contamination where the easement intersects known contaminated sites	Burns pits are no longer used to collect oil. Contractors are utilised for the collection of waste oil. These sites are audited and inspected on a routine basis.	Achieved	The Pipeline does not traverse any contaminated sites and therefore this is not an issue. The Burn pit at CS2 has previously been reported as an area of contamination however remedial work has resulted in this issue being resolved.
	6.4 To ensure that rubbish and waste material is disposed of in an appropriate manner.	Where practicable, recyclable waste is segregated and returned to Moomba, Peterborough or sent to a recycling depot. Where not practicable to recycle, waste is disposed of in an appropriate manner.	Achieved	All rubbish and waste material is removed from all of the pipelines facilities and the easement. This material is transported back to an approved refuse collection and disposal facility.
	6.5 To prevent impacts as a result of hydro-test water and waste water (water bath heaters and wash down water) disposal	Inspection of water disposal sites for evidence of water entering a watercourse or environmentally sensitive area. Testing of water quality prior to release/disposal of waste water. Records on source of water and discharge method/location. Water discharged onto stable ground, with no evidence of erosion as a result of discharge. Water disposed of in a manner that prevented discharge or runoff to watercourses or environmentally sensitive areas.	Achieved	During the reporting period there were no operational requirements to dispose of any waste water.
	6.6 To ensure the safe and appropriate disposal of grey water (sullage, sewage)	Compliance with the relevant local government regulations or relevant health and sanitation regulations.	Achieved	All waste water at Epic Energy's facilities is managed in accordance with statutory regulations and requirements.

OBJECTIVE	GOAL	MEASURE / HOW	ACHIEVED/NOT ACHIEVED	COMMENTS
<p>7. To minimise the risk to public health and safety</p>	<p>7.1 To adequately protect public safety during normal operations</p>	<p>The pipeline easement was clearly identified by signs that had been installed in accordance with AS2885. A comprehensive landowner liaison program was implemented. An Emergency Response Plan was in place and staff were adequately trained.</p>	<p>Achieved</p>	<p>The use of approved work instructions, job hazard analysis, safe to work permits and experienced staff all contribute to Epic Energy meeting this objective.</p>
	<p>7.2 To adequately protect public safety during maintenance</p>	<p>All affected and adjacent landowners were advised of the nature and schedule of maintenance activities. All potentially hazardous areas were signposted or marked with bunting. Adequate traffic management practices were implemented. There were no injuries or incidents involving the public.</p>	<p>Achieved</p>	<p>As for the comment in 7.1</p>
	<p>7.3 To avoid fires associated with pipeline maintenance activities</p>	<p>Fuel load on the easement was consistent with adjacent land. All operations personnel were trained in fire safety procedures.</p> <p>No pipeline related fires have occurred.</p>	<p>Achieved</p>	<p>No maintenance activities were performed during the reporting period that may have contributed to a fire situation.</p>

OBJECTIVE	GOAL	MEASURE / HOW	ACHIEVED/NOT ACHIEVED	COMMENTS
	<p>7.4 To minimise oil losses during pigging and other routine pipeline operations</p>	<p>Spill protection methods are used. All liquid waste is contained within impermeable containers or containment. No evidence of any spills or leaks from operations.</p>	<p>Achieved</p>	<p>No pigging operations were carried out during the reporting period.</p>
	<p>7.5 To monitor the condition of the pipeline to ensure that potential pipeline leaks are identified and appropriate action implemented</p>	<p>Pipeline is pigged at least annually. Slug of bactericide is sent along pipeline following clearing to kill and prevent any bacterial growth. Waste material is analysed for evidence of pipeline corrosion and appropriate action initiated.</p>	<p>Achieved</p>	<p>The pipeline SCADA system collects data to allow a real time pipeline model to be generated that continuously monitors pipeline leakage. Routine patrols and experienced staff ensure that any potential leakage sources should they occur are quickly identified and repaired.</p>
	<p>7.6 To prevent unauthorised activity on the easement that may adversely impact on the pipeline integrity</p>	<p>Inspection / Patrol reports and records. Comprehensive landholder liaison program and records of communications with landholders. Community education program implemented in Regional areas. 'Dial before you dig' number available and widely advertised. Clear identification of the pipeline by signs installed in accordance with AS2885. All reports of unauthorized activity are reported and investigated.</p>	<p>Achieved</p>	<p>A Community awareness and landowner contact program along with routine patrols ensure that unauthorised activities on the pipeline are prevented.</p>
<p>8. Minimise impact of emergency situations</p>	<p>8.1 To minimise the impact as a result of an emergency situation or incident</p>	<p>The pipeline is inspected, monitored, reviewed and appropriate records kept. All staff were trained in and aware of emergency response procedures.</p>	<p>Achieved</p>	<p>No emergency situations have been recorded or managed during the reporting period.</p>

OBJECTIVE	GOAL	MEASURE / HOW	ACHIEVED/NOT ACHIEVED	COMMENTS
	8.2 To restore any damage that may occur as a result of an emergency situation	Refer to previous criteria (Objective 1, 2, 3 & 6).	Achieved	No emergency situations have been recorded or managed during the reporting period.
9. To minimise noise due to operations	9.1 To ensure operations comply with noise standards	Operational activities comply with noise regulations, under the Environment Protection Act 1993. No complaints were received.	Achieved	All maintenance tasks performed during the reporting period were of a nature that did not contribute to any increased levels of noise pollution. The operation of the pipeline does not require any pumping equipment or the release of high pressure product and therefore no noise is generated from this source.
10. To minimise atmospheric emissions	10.1 To eliminate uncontrolled atmospheric emissions	Spill protection methods are used during routine operations. Incident/Spill reports. Scheduled routine maintenance plan.	Achieved	No uncontrolled releases of the pipeline product have occurred during the reporting period.
	10.2 To minimise the generation of dust.	Incident reports. Compliance with work instructions.	Achieved	No excavation work or other activities likely to generate dust have occurred during the reporting period.
11. To adequately protect cultural heritage sites and values during operations and maintenance	11.1 To ensure that identified cultural sites are not disturbed	No impact to known or new sites.	Achieved	While no activities have been carried out on the Liquids Line easement during the reporting period an excavation of the close proximity parallel gas pipeline was required and all parties involved in this excavation were consulted prior to any work being carried out and approvals gained before work commenced.