

TRONOX MANAGEMENT PTY LTD GENERATION LICENCE EGL 23 PERFORMANCE AUDIT ASSET MANAGEMENT REVIEW REPORT

Prepared by Kevan McGill Date 19 May 2017



Lloyd Owens Contract specialist Tronox Management Pty Ltd PERTH WA 6005

Dear Mr Owens

Performance Audit & Asset Management Review Electricity Licence

The fieldwork on the performance audit of Generation Licence EGL23 for the audit period (1 January 2013 to 31 Oct 2016) is complete and I am pleased to submit the report to you. The report reflects my findings and opinions.

In my opinion, the Licensee has maintained a good level of compliance with the Licence conditions and integrity with the Licensee's reporting obligations. There are 2 non-compliances noted.

In my opinion, the Licensee maintained, in all material aspects, control procedures in relation to the Generation licence (EGL 23) for the audit period on the relevant clauses referred to within the scope section of this report.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation licence (EGL 23) for the review period on the relevant clauses referred to within the scope section of this report.

Yours sincerely

Kevan McGill Director

Date 19 May 2017

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1 EXECUTIVE SUMMARY

This performance audit and asset management system review was conducted in accordance with the guidelines issued by the Economic Regulation Authority (ERA) for the audit period (1 January 2013 to 31 Oct 2016).

1.1 OVERALL CONCLUSION

In my opinion, the Licensee has maintained a good level of compliance with the licence conditions. There were 2 non-compliances requiring corrective actions. There are no issues with the integrity of reporting to the ERA or other statutory organisations.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures in relation to the Generation Licence (EGL 23) for the audit period based on the relevant clauses referred to within the scope section of this report.

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation Licence (EGL 23) for the review period on the relevant clauses referred to within the scope section of this report.

1.2 SUMMARY OF SIGNIFICANT RESULTS

1.2.1 AUDIT

There are 2 non-compliances (items 105 and 124).

1.2.2 ASSET MANAGEMENT SYSTEM REVIEW

There is one issue that is required to improve the effectiveness of the asset management system.

1.3 AUDIT PERIOD

This audit covers the period 1 January 2013 to 31 Oct 2016. The previous audit/review period was 24 December 2010 to 31 December 2012.

1.4 THE LICENSEE

Tronox Management (*Tronox*) holds an Electricity Generation Licence (EGL 23) issued by the Economic Regulation Authority under the Electricity Industry Act 2004. This performance audit was conducted in accordance with the guidelines issued by the Economic Regulation Authority (ERA) to assess Tronox's level of compliance with the licence conditions.

1.5 THE ASSETS

Tronox is a large producer of titanium dioxide and the KMK Cogeneration plant is colocated at Kwinana in Western Australia with the titanium dioxide pigment plant. Tronox is publicly listed company with diverse interests and is listed on the New York Stock Exchange. The KMK cogeneration facility consists of a 36MW Frame 6 gas turbine and heat recovery steam generator, (HRSG), that supplies power and steam to the facility and also exports excess power as part of the balancing market through the South West Interconnected System, SWIS. The Cogen plant is operated and maintained by a third party- Monadelphous Group Limited. Tronox provides the operating framework (electricity and steam output) and approves any maintenance outside of the routine maintenance specified in the Operating and Maintenance Agreement.

The generator was originally part of the Verve fleet at Pinjar Power Station and relocated to Kwinana by Verve (then Western Power) as part of a supply agreement. The plant was subsequently purchased by Tronox. The Licensee is primarily a mineral manufacturer on this site and generation of electricity is secondary to mineral production and to that end the key output of the plant is production steam and then electricity for manufacturing and if there is excess to participate in the electricity market.

The records and areas covered by the Licence were inspected and interviews were also held with key personnel at the Kwinana licence area.

1.6 PREVIOUS AUDIT NON-COMPLIANCES AND RECOMMENDATIONS

There are issues from previous audit.

Table of F	Table of Previous Non-Compliances and Audit Recommendations					
A. Res	solved before end of pr	evious audit period				
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable		
B. Res	solved during current A	udit period				
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors'	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable		
2/2013 105	Non-compliant 2 <i>Generating Licence 4.1</i> Pay Licence fees on time	As there was a near late payment. Required reminder from the ERA and one missed payment due to the licensee being unaware of requirement. Consideration could be given to including the requirement in the InControl system and including in the legal & Other Obligations Register.	2013	While there was a controls issue raised in 2013 the action was ineffective and further action is required (2/2016)		
3/2013 124	Non-compliant 2 <i>Generating Licence 16.1</i> Make reports on time	As this requirement has been late and addressed with an internal action plan (i.e. inclusion as scheduled event in InControl) future compliance should be expected. However, consideration could also be given to including in the Legal and Other Obligations Register.	2013	While there was a controls issue raised in 2013 the action was ineffective and further action is required (2/2016)		

C. Un	C. Unresolved at end of current Audit period					
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable		

Opportunities for Improvement (2013)

Ą	A. Resolved before end of previ	ous audit period		
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable
	Developed double comments and	the second second		
/2013	Resolved during current Aud Compliant 4		2013	No
01	Generating Licence 14.1 Improve controls on asset management review scheduling	compliance, consideration could be given to formalising the scheduling of the audit through including the requirement in the legal and other obligations register or scheduling as event in the Incontrol System.	2010	
_	100p			
C		-		
Reference (no./year)	(Compliance rating/ Legislative Obligation/ details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) Details of further action required including current recommendation reference if applicable

1.7 ISSUES FROM CURRENT AUDIT

There are 2 issues from current audit.

1.7.1 COMPLIANCE ELEMENTS REQUIRING CORRECTIVE MEASURES

The actions requiring corrective measures are:

Table U	Current Audit Non-Compliand		
А.	Resolved during current Audit per	riod	
Reference (no./year)	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of controls)	Date Resolved (& management action taken)	Auditors comments
В.	Unresolved at end of current Audi	t period	
B. Reference (no./year)	Unresolved at end of current Audi Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of controls)	t period Auditors' Recommendation	Management action taken by end of Audit period
Reference	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of		taken by end of

1.7.2 OPPORTUNITIES FOR IMPROVEMENT

Table of C	Table of Current Audit Non-Compliances/Recommendations					
Unresolve	Unresolved at end of current Audit period					
Reference (no./year)	Non-Compliance/Controls improvement (Rating / Legislative Obligation / Details of Non Compliance or inadequacy of controls)		Management action taken by end of Audit period			

1.8 PREVIOUS REVIEW RECOMMENDATIONS

Recommendations from last review (2013):

Previous review ineffective components recommendations

Table of Previous Review Ineffective Components Recommendations

A. Resolved before end of previous review period

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation or action taken	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable

Reference (no./year)	Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
1/2013 1.7	A2 Likelihood and consequences of asset failure are predicted	Document a contingency plan for failure of Cogen assets in conjunction with Monadelphous and FM Global which considers the risk of such failures. Contingency plans be documented and details investigated	2013	N/A
2/2013 7.5	A2 Data backup procedures appear Adequate Manual back up to CD's is vulnerable to error and an automated system is recommended	Manual back up to CD's is vulnerable to error and an automated osystem is recommended. Tronox to review with Monadelphous their proposed automated system for data back up and determine if this will benefit data security.		N/A
3/2013 7.6	A2 Key computations related to licensee performance reporting are materially accurate There is no method of verifying accuracy.	Since there is no kWh check metering calibration should be reviewed or some means of checking implemented. Tronox to review with Western Power, their ability to carry out calibration of their electrical meters.	2013	N/A

Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recommendation	Date Resolved	Further action required (Yes/No/Not Applicable) & Details of further action required including current recommendation reference if applicable
4/2013 9.1	A2 Contingency plans are documented, understood and tested to confirm their operability and to cover higher risks	Contingency plans be documented and details investigated Contingency plans seem to be adequate apart from those for a transformer failure which appear not to be clearly documented or detail designed. The likelihood of a transformer failure is low and the financial risk for Tronox is considered acceptable. The consequences on the SWIN are also low considering the small contribution provided by the Co-gen, <1%, to the overall SWIN generation capacity. Contingency plans be documented and details investigated e.g. there is no defined contingency in event of the step up transformer failing, if such an event were to occur the industry network would be used to help find a solution. A step up transformer failure would prevent exporting of power but the pigment process could continue using power from the SWIN, this is currently an acceptable risk to Tronox		N/A
C IInr	esolved at end of current R	aviow poriod		
Reference (no./year)	(Asset management effectiveness rating/ Asset Management System Component & Criteria / details of the issue)	Auditors' Recomm	nendation	Further action required (Yes/No/Not Applicable) & Details of further action required

1.9 TABLE OF CURRENT REVIEW ASSET SYSTEM DEFICIENCIES/ RECOMMENDATIONS

Table of Current Review Asset System Deficiencies/Recommendations

A. Resolved during current Review period

Reference (no./year)	Asset System Deficiency (Rating/ Asset Management System Component & Effectiveness Criteria / Details of Asset System Deficiency)	Date Resolved (& management action taken)	Auditors comments
	Unresolved at end of current F	-	
Reference (no./year)	Asset System Deficiency (Rating/ Asset Management System Component & Effectiveness Criteria /	Auditors Recommendation	Management action taken by end of audit period
	Details of Asset System Deficiency)		

2 PERFORMANCE AUDIT & ASSET MANAGEMENT SYSTEM REVIEW PERFORMANCE AUDIT OBJECTIVES

2.1 PERFORMANCE AUDIT OBJECTIVES

Under section 13 of the *Electricity Industry Act 2004* (the Act), it is a requirement that every licensee provide the Economic Regulation Authority (ERA) not less than once in every period of 2 years or longer as the ERA allows with a performance audit conducted by an independent expert acceptable to the ERA.

The primary objective of the audit is to audit the effectiveness of measures taken by the Licensee to maintain quality and performance standards. The Act states a performance audit is an audit of the effectiveness of measures taken by the Licensee to meet the performance criteria specified in the licence. The licence states that performance standards are contained in applicable legislation. Performance criteria are defined in the licence as:

- (a) the terms and conditions of the *licence*; and
- (b) any other relevant matter in connection with the applicable legislation that the ERA determines should form part of the audit.

The licence also provides for individual licence conditions namely - the *ERA* may prescribe individual performance standards in relation to the Licensee of its obligations under this licence or the applicable legislation (the Act and subordinate legislation).

The audit and review are to be conducted in accordance with the prevailing ERA documents "Audit Guidelines: Electricity and Gas Licences (hereinafter "Guidelines")¹ and the Electricity Compliance Reporting Manual (hereinafter "Manual")². In particular, the Manual identifies each licence condition and resolves it into a number of obligations (hereinafter "Obligations"), each of which is to be addressed individually by the audit.

The Licensee appointed McGill Engineering Services Pty Ltd to conduct the audit of its Generation Licence with approval from the ERA. A preliminary assessment was conducted with the Licensee's management to determine the inherent risk and the state of control for each compliance element of the Licence obligation. McGill Engineering Services Pty Ltd then prioritised the audit coverage based on the risk profile of the Licensee with an emphasis on providing greater focus and depth of testing for areas of higher risk to provide reasonable assurance that the Licensee had complied with the standards, outputs and outcomes under the Licence obligations.

¹ Economic Regulation Authority: Audit and Review Guidelines: Electricity and Gas Licences April 2014

² Economic Regulation Authority: Electricity Compliance Reporting Manual September 2014. The audit period was covered by the 2013 manual for a period and the 2014 manual for the majority of the audit period. The are no items in the 2013 manual that are not in the 2014 manual and the 2014 manual is used for the audit. The July 2016 manual has no differences for this licensee. The October 2016 manual also has no differences for this licensee other than item 105 which already can accommodate the ERA licensing fee change.

The audit was conducted in a manner consistent with Australian Auditing Standards (AUS) 808 "Planning Performance Audits" and AUS 806 "Performance Auditing". McGill Engineering Services Pty Ltd evaluated the adequacy and effectiveness of the controls and performance by the Licensee relative to the standards referred in the Generation Licence through a combination of enquiries, examination of documents and detailed testing for Generation Licence EGL 23 for the Licensee.

2.2 REVIEW OBJECTIVES

Under the *Electricity Industry Act 2004* (the Act) section 14, the holder of a Generation License must develop an Asset Management System and maintain an asset management system to manage the assets accordingly for delivery of a reliable service to its customers. The Act requires a review of the asset management system every two years (or longer time approved by the ERA).

This report is an impartial review of the Licensee's asset management effectiveness under the Review Guidelines: Electricity and Gas Licences published by the ERA.

The review conducted between December 2016 to February 2017 examined the asset management processes used by the Licensee in delivering the services to its customers. These services include lifecycle processes for:

- Asset planning;
- Asset creation/acquisition;
- Asset disposal;
- Environmental analysis;
- Asset operations;
- Asset maintenance;
- Asset management information system (AMIS);
- Risk management;
- Contingency planning;
- Financial planning;
- Capital expenditure planning; and
- Review of the asset management system.

As well as the processes, the asset management supporting systems were tested as to their use and effectiveness. Data used by the Licensee was also examined with respect to its effectiveness for asset management and the delivery of outcomes.

Tests were undertaken through interviews and investigation of the processes to assess whether they were being performed as documented.

The Licensee appointed McGill Engineering Services Pty Ltd to conduct the review of its Generation Licence with approval from the ERA. A preliminary assessment was conducted with the Licensee's management to determine the inherent risk and the state of control for each asset management system lifecycle processes McGill Engineering Services Pty Ltd then prioritised the review coverage based on the risk profile of the Licensee with an emphasis on providing greater focus and depth of testing for areas of

higher risk to provide reasonable assurance that the Licensee has maintained an effective asset management system.

The review was conducted in a manner consistent with ASAE 3000 Assurance standard for engagements to audit other than historical financial information. McGill Engineering Services Pty Ltd evaluated the adequacy and effectiveness of the controls and performance by the Licensee relative to the standards referred in the Generation Licence through a combination of enquiries, examination of documents and detailed testing for Electricity Generation Licence EGL 23 for Tronox Management Pty Ltd.

2.3 SCOPE LIMITATION

The review was undertaken by examination of documents, interviews with key persons and observations and is not a detailed inspection of physical items. The generating plant was inspected.

2.4 INHERENT LIMITATIONS

Because of the inherent limitations of any internal control structure, it is possible that fraud, error or non-compliance with laws and regulations may occur and not be detected.

An audit is not designed to detect all weaknesses in compliance measures as an audit is not performed continuously throughout the period and the audit procedures performed on the compliance measures are undertaken on a test basis.

Any projection of the evaluation of the operating licences to future periods is subject to the risk that the compliance measures in the plans may become inadequate because of changes in conditions or circumstances, or that the degree of compliance with them may deteriorate.

The audit opinion expressed in this report has been formed on the above basis.

2.5 STATEMENT OF INDEPENDENCE

To the best of my knowledge and belief, there is no basis for contraventions of any professional code of conduct in respect of the audit.

I have not done or contemplate undertaking any other work with the Licensee.

There are no independence threats due to:

- self-interest as the audit company or a member of the audit team have no financial or non-financial interests in the Licensee or a related entity;
- self-review no circumstance has occurred:
 - where the audit company or a member of the audit team has undertaken other non-audit work for the Licensee that is being evaluated in relation to the audit/review; or
 - when a member of the audit team was previously an officer or director of the Licensee; or

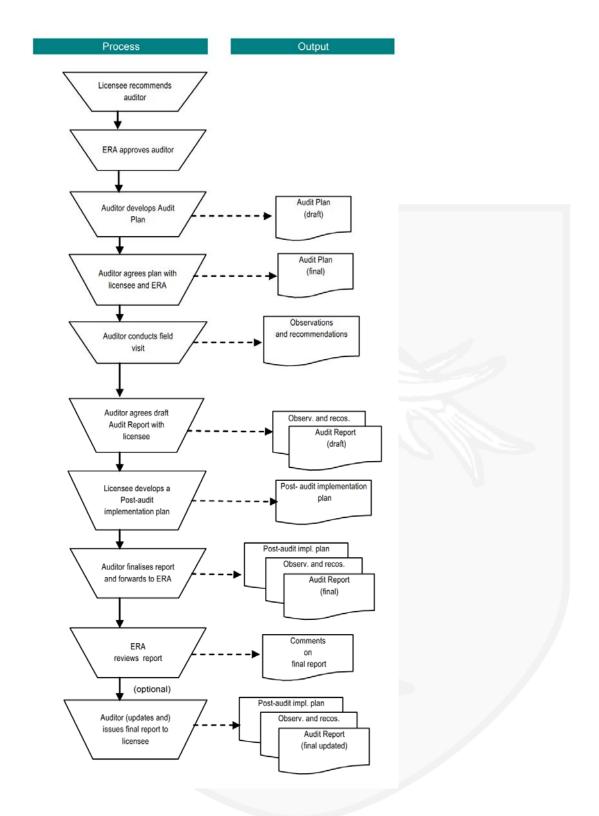
• where a member of the audit team was previously an employee of the Licensee who was in a position to exert direct influence over material that will be subject to audit during an audit/review.

There is no risk of a self-review threat as:

- no work has been undertaken by the auditor, or a member of the audit/review team, for the Licensee within the previous 24 months; or
- the auditor is currently undertaking for the Licensee; or
- the auditor has submitted an offer, or intends to submit an offer, to undertake for the Licensee within the next 6 months; and
- there is no close family relationship with a Licensee, its directors, officers or employees, and
- the auditor is not, nor is perceived to be too sympathetic to the Licensee's interests.

2.6 SCOPE OF THE AUDIT

The audit was conducted in accordance with flow chart:



2.7 KEY CONTACTS

The key contacts were:

- Licensee: The licensee's key people are
- Monadelphous

- Steve Farley: Site Manager
- Steve Paul: Technical Officer
- Tronox
 - Shayne Ashworth: Manager Supply Chain
 - Lloyd Owens: Contracts Specialist
- McGill Engineering Services Pty Ltd:
 - Kevan McGill, John McLoughlin.

The generating plant at Kwinana was visited. Kevan McGill spent 80 hours and John Mcloughlin spent 30 hours on the audit/review.

2.8 AUDIT REQUIREMENTS

Compliance with licence conditions was examined according to the likely inherent risk and the adequacy of controls to manage that risk.

Nature of audit work conducted

The audit considered:

- **process compliance** the effectiveness of systems and procedures in place throughout the audit period, including the adequacy of internal controls;
- **outcome compliance** the actual performance against standards prescribed in the licence throughout the audit period;
- **output compliance** the existence of the output from systems and procedures throughout the audit period (that is, proper records exist to provide assurance that procedures are being consistently followed and controls are being maintained);
- **integrity of reporting** the completeness and accuracy of the compliance and performance reports provided to the ERA; and
- **compliance with any individual licence conditions** the requirements imposed on the specific licensee by the ERA or specific issues that are advised by the ERA.

Stage	Auditor	Standard
1. Risk & Materiality	K McGill	ASA 300 Planning
Assessment Outcome	John	ASA 315: Risk Assessments and
- Operational/	McLoughlin	Internal Controls
Performance Audit		ASAE 3000 Assurance standard for
Plan		engagements to audit other than
		historical financial information
		AS/NZS ISO 31000:2009 Risk
		Management
		ERA Guidelines
2. System Analysis	K McGill	AUS 810: Special Purpose Reports on
	John	Effectiveness of Control Procedures
	McLoughlin	
3. Fieldwork	K McGill	AUS 502: Audit Evidence
Assessment and	John	ASAE 3000 Assurance standard for
testing of;	McLoughlin	engagements to audit other than
The control		historical financial information
environment		

 Information system Compliance procedures Compliance attitude Reporting 	K McGill	ASA 300 Planning
	John McLoughlin	ASAE 3000 Assurance standard for engagements to audit other than historical financial information

OVERALL CONCLUSION 2.9

In my opinion, the Licensee maintained, in all material aspects, effective control procedures in relation to the Generation Licence EGL 23 for the audit period based on the relevant clauses referred to within the scope section of this report.

There are 2 non-compliances that required corrective actions.

2.10 FINDINGS

The conclusions of each of the elements of the licence are summarised in the following table. The audit risk as determined for each licence condition is also shown. The details of the audit can be seen in detailed findings on Page 26.

2.11 AUDIT COMPLIANCE AND CONTROLS RATING SCALES

Performanc	Performance audit compliance and controls rating scales								
Adequ	acy of Controls Rating	Compliance Rating							
Rating	Description	Rating	Description						
А	Adequate controls - no improvement needed	1	Compliant						
В	Generally adequate controls – improvement needed	2	Non-compliant – minor impact on customers or third parties						
С	Inadequate controls -significant improvement required	3	Non-compliant – moderate impact on customers or third parties						
D	No controls evident	4	Non-compliant – major impact on customers or third parties						
NP	Not performed	NR	Not Rated						

2.12 AUDIT SUMMARY

Item	Licence Clause/Condition reference (Cl.=clause, Sch.=schedule)	Obligations under condition	Licence Type (G - Generation)		Audit Priority		Adequacy of Controls	(NP=Not Performed)				Compliance Rating	(NR = Not Rated)		
Gene	eration	ons – Licenc			Priority	con	trols	cy o ratii	ng			mplia			-
		ectricity Indu	-			A	В	С	D	NP	1	2	3	4	NR
101.	14.1	s ³ 13(1)	G	NR	5	~	-	5			✓				
102.	20.1	s14(1)(a)	G	NR	5	~					~				
103.	20.2 &20.3	s14(1)(b)	G	2	4				-	~		1			~
104.	20.4	s14(1)(c)	G	NR	5	✓					✓				
105.	4.1	s17(1)	G	2	4			✓				~			
106	5.1	s31(3)	G	NR	5	✓		1			<				
107.	5.1	s41(6)	G	2	4					✓					\checkmark
	nce Conditio	one Electri	مناحدا												
Act S	Section		city indu	stry	Priority			cy o ratii			Co	mplia	ance	e Ra	ting
	Section Jations- Lic	ence Claus			Priority			cy o ratii C		NP	Co 1	mplia	ance 3	e Ra [·] 4	ting NR
Oblig	ations- Lic	ence Claus	e – Gene	eration		con A	trols	rati	ng	NP	1				-
Oblig 119.	ations- Lic s11	ence Claus	e – Gene G	eration	4	con	trols	rati	ng	NP					-
Oblig 119. 120.	ations- Lic s11 s11	ence Claus 12.1 13.4	e – Gene G G	eration 2 2	4	con A	trols	rati	ng		1				NR
Oblig 119. 120. 121.	ations- Lic s11 s11 s11	ence Claus 12.1 13.4 14.2	e – Gene G G G	eration 2 2 2	4 4 4	con A ✓	trols	rati	ng		1				NR
Oblig 119. 120. 121. 122.	ations- Lic s11 s11 s11 S22	ence Clause 12.1 13.4 14.2 20.5	e – Gene G G G G	eration 2 2 2 2 2	4 4 4 4	con A ✓	trols	rati	ng		1 ✓				NR
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Oblig 119. 120. 121. 122. 123. 124.	ations- Lic s11 s11 s11 S22	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1	e – Gene G G G G G G G	eration 2 2 2 2 2	4 4 4 4 4	con A ✓	trols	C	ng		1 ✓	2			NR
Oblig 119. 120. 121. 122. 123.	ations- Lic s11 s11 s11 S22 s11 s11 s11	ence Clause 12.1 13.4 14.2 20.5 15.1	e – Gene G G G G G G G	2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4	con A ✓	trols	C	ng	✓ ✓ ✓	1 ✓	2			NR ✓
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig	ations- Lic \$11 \$11 \$11 \$11 \$22 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$12 \$11 \$13 \$11	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2	e – Gene G G G G G G G G C C C C C C C C C C C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓ ✓	1 ✓ ✓ ✓	2	3	4	NR ✓
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig	ations- Lic s11 s11 S22 s11 s11 s11 s11 s11 ce Conditio	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 Dons – Licence	e – Gene G G G G G G G G C C C C C C C C C C C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4	Con A ✓ ✓ ✓ ✓ Ade	B	ratii C ✓	ng D	✓ ✓ ✓	1 ✓ ✓ ✓	2	3	4	NR
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig	ations- Lic \$11 \$11 \$11 \$11 \$22 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$12 \$11 \$13 \$11	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 Dons – Licence	e – Gene G G G G G G C C C C C C C C C C C C C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 9 riority 5	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓ ✓	1 ✓ ✓ ✓	2	3	4	NR ✓
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Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig Code 324.	ations- Lic s11 s11 s11 S22 s11 s11 s11 s11 s11 ce Conditio pations- Ele Clause 5.1	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 Dons – Licence ctricity Indus	e – Gene G G G G G G C C C C C C C C C C C C C	eration 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 9 riority 5	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓ ✓ ✓ ✓	1 ✓ ✓ ✓	2	3	4	NR V V ting NR
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig Code 324. 339.	ations- Lic s11 s11 s12 s22 s11 s11 s11 s11 s11 s11	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 ons – Licenc ctricity Indus 3.3B 3.11(3)	e – Gene G G G G G G G C C C C C C C C C C C C	eration 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 9 riority 5 5	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓	1 ✓ ✓ ✓	2	3	4	NR V V ting NR
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig Code 324. 339. 364	ations- Lic \$11 \$11 \$11 \$11 \$22 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$12 \$11 \$13 \$11 \$14 \$11 \$15 \$1 \$5.1 \$5.1 \$5.1 \$5.1	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 ons – Licence ctricity Indus 3.3B 3.11(3) 3.27	e – Gene G G G G G G G G C C C C G G G G G G G	eration 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 7 7 5 5 5 4	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓	1 ✓ ✓ ✓	2	3	4	NR V V ting NR
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig Code 324. 339. 364 371.	ations- Lic s11 s11 s11 S22 s11 s11 s11 s11 s11 ce Condition pations- Ele Clause 5.1 5.1 5.1 5.1 5.1	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 0ns – Licenc ctricity Indus 3.3B 3.11(3) 3.27 4.4(1)	e – Gene G G G G G G G G stry Mete G G G G G G	eration 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 4 5 5 5 5 4 5	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓	1 ✓ ✓ ✓	2	3	4	NR V V ting NR
Oblig 119. 120. 121. 122. 123. 124. 125. 126. Licen Oblig Code 324. 339. 364 371. 372.	ations- Lic s11 s11 s11 S22 s11 s11 s11 s11 ce Conditions- Elerer Clause 5.1 5.1 5.1 5.1 5.1	ence Clause 12.1 13.4 14.2 20.5 15.1 16.1 17.1&17.2 18.1 ons – Licenc ctricity Indus 3.3B 3.11(3) 3.27 4.4(1) 4.5(1)	e – Gene G G G G G G G G C C C C G G G G G G G	eration 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 4 5 5 5 5 4 5 5	Con A ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		cy o ratii	ng D	✓ ✓	1 ✓ ✓ ✓	2	3	4	NR V V ting NR

 3 s = Section of Act

Licence Conditions – Licence clause Obligations- Electricity Industry Metering				Priority	Adequacy of controls rating			Compliance Rating							
Code	Clause					А	В	С	D	NP	1	2	3	4	NR
402.	5.1	5.17(1)	G	2	4					✓					 Image: A start of the start of
405.	5.1	5.18	G	2	4					✓					~
406.	5.1	5.19(1)	G	NR	5					✓					✓
407	5.1	5.19(2)	G	NR	5					✓					~
408.	5.1	5.19(3)	G	2	4					✓					✓
410.	5.1	5.19(6)	G	NR	5					✓					~
416.	5.1	5.21(5)	G	2	4					✓					~
417.	5.1	5.21(6)	G	NR	4					✓					✓
435.	5.1	5.27	G	2	4					~					 Image: A set of the set of the
448.	5.1	6.1(2)	G	2	4	✓					✓				
451.	5.1	7.2(1)	G	2	4	✓					✓				
453.	5.1	7.2(4)	G	2	4					✓					~
454.	5.1	7.2(5)	G	2	4		-			✓					~
455.	5.1	7.5	G	NR	5		9			✓					~
456.	5.1	7.6(1)	G	NR	5	1				✓					~
457.	5.1	8.1(1)	G	NR	5		14	1.1		✓					~
458.	5.1	8.1(2)	G	2	4		-			~		2			~
459.	5.1	8.1(3)	G	NR	5					 Image: A second s					√
460.	5.1	8.1(4)	G	NR	5				1	~			c		✓
461.	5.1	8.3(2)	G	NR	5				_	✓					<

2.13 REVIEW EFFECTIVENESS

2.13.1 ASSET MANAGEMENT REVIEW EFFECTIVENESS SUMMARY

The overall effectiveness rating for each asset management process is based on the combination of the process and policy adequacy rating and the performance rating.

Rating	Description	Criteria
A	Adequately defined	 Processes and policies are documented. Processes and policies adequately document the required performance of the assets. Processes and policies are subject to regular reviews, and updated where necessary. The asset management information system(s) are adequate in relation to the assets that are being managed.
В	Requires some improvement	 Process and policy documentation requires improvement. Processes and policies do not adequately document the required performance of the assets. Reviews of processes and policies are not conducted regularly enough. The asset management information system(s) require minor improvements (taking into consideration the assets that are being managed).
с	Requires significant improvement	 Process and policy documentation is incomplete or requires significant improvement. Processes and policies do not document the required performance of the assets. Processes and policies are significantly out of date. The asset management information system(s) require significant improvements (taking into consideration the assets that are being managed).

Asset management process and policy definition adequacy rating

	D	Inadequate	•	Processes and policies are not documented. The asset management information system(s) is not fit for purpose (taking into consideration the assets that are being managed).
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Asset management performance ratings

Rating	Description	Criteria
1	Performing effectively	 The performance of the process meets or exceeds the required levels of performance. Process effectiveness is regularly assessed, and corrective action taken where necessary.
2	Opportunity for improvement	 The performance of the process requires some improvement to meet the required level. Process effectiveness reviews are not performed regularly enough. Process improvement opportunities are not actioned.
3	Corrective action required	 The performance of the process requires significant improvement to meet the required level. Process effectiveness reviews are performed irregularly, or not at all. Process improvement opportunities are not actioned.
4	Serious action required	 Process is not performed, or the performance is so poor that the process is considered to be ineffective.

2.13.2 ASSET MANAGEMENT SYSTEM EFFECTIVENESS SUMMARY

AS	SET MANAGEMENT SYSTEM COMPONENT & EFFECTIVENESS CRITERIA	Asset management process and policy definition adequacy rating	Asset management performance rating
1	Asset planning	Α	1
1.1	Asset management plan covers the key requirements	А	1
1.2	Planning process and objectives reflect the needs of all stakeholders and is integrated with business planning	A	1
1.3	Service levels are defined	А	1
1.4	Non-asset options (e.g. demand management) are considered	A	1
1.5	Lifecycle costs of owning and operating assets are assessed	А	1
1.6	Funding options are evaluated	А	1
1.7	Costs are justified and cost drivers identified	A	1
1.8	Likelihood and consequences of asset failure are predicted	A	1
1.9	Plans are regularly reviewed and updated	A	1
2.	Asset creation and acquisition	В	2
2.1	Full project evaluations are undertaken for new assets, including comparative assessment of non-asset solutions	NP	NR
2.2	Evaluations include all life-cycle costs	А	NR
2.3	Projects reflect sound engineering and business decisions	А	NR
2.4	Commissioning tests are documented and completed	А	NR
2.5	Ongoing legal/environmental/safety obligations of the asset owner are assigned and understood	В	2
3.	Asset disposal	Α	NR
3.1	Under-utilised and under-performing assets are identified as part of a regular systematic review process	A	1
3.2	The reasons for under-utilisation or poor performance are critically examined and corrective action or disposal undertaken	A	1

3.3	Disposal alternatives are evaluated	A	1
3.4	There is a replacement strategy for assets	A	NR
4.	Environmental analysis	Α	1
4.1	Opportunities and threats in the system environment are assessed	A	1
4.2	Performance standards (availability of service, capacity continuity, emergency response, etc.) are measured and achieved	A	1
4.3	Compliance with statutory and regulatory requirements	А	1
4.4	Achievement of customer service levels	А	1
5	Asset operations	Α	1
5.1	Operational policies and procedures are documented and linked to service levels required	А	1
5.2	Risk management is applied to prioritise operations tasks	А	1
5.3	Assets are documented in an Asset Register including asset type, location, material, plans of components, an assessment of assets' physical/structural condition and accounting data	A	1
5.4	Operational costs are measured and monitored	А	1
5.5	Staff resources are adequate and staff receive training commensurate with their responsibilities	A	1
6	Asset maintenance	Α	1
6.1	Maintenance policies and procedures are documented and linked to service levels required	А	1
6.2	Regular inspections are undertaken of asset performance and condition	A	1
6.3	Maintenance plans (emergency, corrective and preventative) are documented and completed on schedule	A	1
6.4	Failures are analysed and operational/maintenance plans adjusted where necessary	A	1
6.5	Risk management is applied to prioritise maintenance tasks	А	1
6.6	Maintenance costs are measured and monitored	А	1
7	Asset Management Information System (MIS)	Α	1
7.1	Adequate system documentation for users and IT operators	А	1
7.2	Input controls include appropriate verification and validation of data entered into the system	А	1
7.3	Logical security access controls appear adequate, such as passwords	А	1
7.4	Physical security access controls appear adequate	Α	1
7.5	Data backup procedures appear adequate and backups are tested	A	1
7.6	Key computations related to Licensee performance reporting are materially accurate	A	1
7.7	Management reports appear adequate for the Licensee to monitor licence obligations	A	1
8	Risk management	Α	1
8.1	Risk management policies and procedures exist and are being applied to minimise internal and external risks associated with the asset management system	A	1
8.2	Risks are documented in a risk register and treatment plans are actioned and monitored	A	1
8.3	The probability and consequences of asset failure are regularly assessed	A	1
9	Contingency planning	Α	1
9.1	Contingency plans are documented, understood and tested to confirm their operability and to cover higher risks	A	1
10	Financial planning	Α	1
10.1	The financial plan states the financial objectives and	A A	1
10.1	strategies and actions to achieve the objectives		

10.2	The financial plan identifies the source of funds for capital expenditure and recurrent costs	А	1
10.3	The financial plan provides projections of operating statements (profit and loss) and statement of financial position (balance sheets)	A	1
104	The financial plan provides firm predictions on income for the next five years and reasonable indicative predictions beyond this period	A	1
10.5	The financial plan provides for the operations and maintenance, administration and capital expenditure requirements of the services	A	1
10.6	Significant variances in actual/budget income and expenses are identified and corrective action taken where necessary	A	1
11	Capital expenditure planning	Α	NR
11.1	There is a capital expenditure plan that covers issues to be addressed, actions proposed, responsibilities and dates	A	NR
11.2	The plan provides reasons for capital expenditure and timing of expenditure	A	NR
11.3	The capital expenditure plan is consistent with the asset life and condition identified in the asset management plan	A	1
11.4	There is an adequate process to ensure that the capital expenditure plan is regularly updated and actioned	A	1
12	Review of AMS	Α	1
12.1	A review process is in place to ensure that the asset management plan and the asset management system described therein are kept current	A	1
2.2	Independent reviews (e.g. internal audit) are performed of the asset management system	A	1

2.14 OVERALL CONCLUSION

In my opinion, the Licensee maintained, in all material aspects, effective control procedures and an effective asset management system in relation to the Generation licence (EGL 23) for the review period on the relevant clauses referred to within the scope section of this report.

There are no ineffective issues that required corrective actions.

2.15 ESTABLISHING THE CONTEXT

The key legislation that governs the licensing of providers of Electricity is the Electricity Industry Act 2004. In turn, the compliance elements in the organization's Operating Licence were examined and referred to throughout the audit process.

2.15.1 AUDIT RESULTS AND RECOMMENDATIONS

Summary of significant results

There are 2 non-compliances.

2.15.2 COMPLIANCE ELEMENTS REQUIRING CORRECTIVE MEASURES

There are 2 issues requiring corrective action.

2.15.3 SUGGESTIONS FOR IMPROVEMENT

There are no suggestions for improvement.

2.16 DETAILED FINDINGS

The following sets out the audit findings

2.16.1 AUDIT WORK UNDERTAKEN

We conducted interviews and enquiries to:

- Understand the control environment by determining the responsibility matrix and key control points
- Obtain the policies and procedures for managing licensed areas; and
- Identify the information systems and processes employed to manage licensed areas
- Determine the level of understanding of the systems and processes for managing licensed areas
- In reviewing the procedures and protocols for managing provision of services within a licensed area, where applicable, we obtained flowcharts of the processes and assessed the reasonableness of the decision matrix and the adequacy of the control points implemented by the Licensee.

2.16.2 FURTHER CONTROL STRATEGIES

The Licensee has compliance manual to assist compliance with regulatory items and a risk register.

2.17 POST AUDIT/ POST REVIEW IMPLEMENTATION PLANS

The Licensee will provide to the ERA a post-audit and post-review implementation plan, with the audit or review report.

2.18 AUDIT/ REVIEW EVIDENCE

The following was considered in the audit/review.

- Generation Licence V3
- Contact details
- Asset Register
- Spares List
- Tronox Financial reports
- Tronox Consolidated financial statements
- Annual compliance returns
- Licence fees payment details

- Asset Management Plan
- Western Power Access Agreement
- HSE and Environment management plan
- Tronox emergency Response plan
- Tronox-Western Power operating agreement
- MEX reports and screen shots
- Financial auditor report
- Sample tender documents
- Training certificates



2.19 DETAILED AUDIT FINDINGS

The following sets out the audit findings

2.19.1 ELECTRICITY INDUSTRY ACT – LICENCE CONDITIONS AND OBLIGATIONS

Item 101	Adequacy of	Compliance rating
Generation Licence condition 14.1	controls rating	
	A	1
Licence: Generation		
Electricity Industry Act section 13(1)		
A Licensee must, not less than once every 24 m	onths, provide the ERA v	vith a performance
audit conducted by an independent expert accept	otable to the ERA.	
Observations		
Documents 🗹 Compliance 🗹		
Evidence: interviewed Site Manager, Technical	Officer, Contracts Specia	alist, listed staff.
Documents: The Licensee contracted with the au		
were forwarded to the ERA as part of the approv	al of the auditor. License	e received approval
from the ERA for audit scope and appointment of	of auditor.	
Process 🗹 Outcome 🗹 Output	☑ Reporting ☑	Compliance 🗹
The Licensee contracted with the auditor to carry	y out the audit to meet th	e requirements. The
last audit met the requirements.		
Issues		
None		11111
Recommendations		
None		
Item 102	Adequacy of controls	Compliance rating
Generation Licence condition 20.1	rating	
	A	1
Licence: Generation		
Electricity Industry Act section 13(1)		
A Licensee must provide for an asset manageme	ent system.	
Observations		
Documents 🗹 Compliance 🗹		
Evidence: interviewed Site Manager, Technical	Officer, Contracts Specia	alist, listed staff.
Evidence: interviewed Site Manager, Technical	IEX Screen shots, Asset	Register, Spares List,
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N	IEX Screen shots, Asset	Register, Spares List,
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N	IEX Screen shots, Asset	Register, Spares List,
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N Tronox Financial reports, Annual compliance ret	/IEX Screen shots, Asset urns, Licence fees paymo ☑ Reporting ☑	Register, Spares List, ent details, Compliance 🛛
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N Tronox Financial reports, Annual compliance retProcessImage: OutcomeProcessImage: OutcomeThe Licensee has an asset management system the operations and maintenance asset management	IEX Screen shots, Asset urns, Licence fees paymon	Register, Spares List, ent details, Compliance nagement plan and and maintenance
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N Tronox Financial reports, Annual compliance retProcessImage: Outcome image: Output The Licensee has an asset management system	IEX Screen shots, Asset urns, Licence fees paymon	Register, Spares List, ent details, Compliance nagement plan and and maintenance
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, M Tronox Financial reports, Annual compliance retProcessImage: OutcomeImage: OutputThe Licensee has an asset management system the operations and maintenance asset managen systems reviewed at site. These included mainter spreadsheets. The asset management system in	IEX Screen shots, Asset urns, Licence fees payme	Register, Spares List, ent details, Compliance Image: Im
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, M Tronox Financial reports, Annual compliance retProcessImage: OutcomeImage: Output OutputThe Licensee has an asset management system the operations and maintenance asset managen systems reviewed at site. These included maintenance	IEX Screen shots, Asset urns, Licence fees payme	Register, Spares List, ent details, Compliance Image: Im
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, M Tronox Financial reports, Annual compliance retProcessImage: OutcomeImage: OutputThe Licensee has an asset management system the operations and maintenance asset managen systems reviewed at site. These included mainter spreadsheets. The asset management system in	IEX Screen shots, Asset urns, Licence fees payme	Register, Spares List, ent details, Compliance Image: Im
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, N Tronox Financial reports, Annual compliance retProcessImage: OutcomeImage: OutputThe Licensee has an asset management system the operations and maintenance asset managen 	IEX Screen shots, Asset urns, Licence fees payme	Register, Spares List, ent details, Compliance Image: Im
Evidence: interviewed Site Manager, Technical Documents: Include, Risk management policy, M Tronox Financial reports, Annual compliance retProcessImage: OutcomeImage: OutputThe Licensee has an asset management system the operations and maintenance asset managen 	IEX Screen shots, Asset urns, Licence fees payme	Register, Spares List, ent details, Compliance Image: Im

Item 103	Adequacy of controls	Compliance rating
Generation Licence condition 20.2 & 20.3	rating Not Performed	Not Rated
Licence: Generation	Not chollied	Not Nated
Electricity Industry Act section 13(1)		
A Licensee must notify details of the asset ma	nagement system and an	v substantial changes
to it to the ERA.		,
Observations		
Documents		
Evidence: interviewed Site Manager, Technic		
Documents: The asset management system w Process □ Outcome □ Output		v. │Compliance │□
In the licence application, the asset management		
been no substantial changes that required not		
audit period.	, 0	, ,
Issues		
None	1 () () () () () () () () () (
Recommendations		
None	(Maria	
Item 104	Adequacy of controls rating	Compliance rating
Generation Licence condition 20.4	A	1
Licence: Generation		
A Licensee must provide the ERA with a repor effectiveness of its asset management system determined by the ERA.		
Observations		
Documents 🗹 Compliance 🗹		
Evidence: interviewed Site Manager, Technic Documents: Include, Asset Management Plan review.		
	☑ Reporting ☑ Con	npliance 🗹
The Licensee contracted McGill Engineering S	Services, with approval of	the ERA, for the review
in accordance with the requirements and the re-	eview plan documents hav	ve been forwarded to
the ERA as part of approval of the auditor.		
None		
Recommendations		
None		
Item 105	Adequacy of controls	Compliance rating
Generation Licence condition 4.1	rating	
Licence	C	2
Licence: Generation		
<i>Electricity Industry Act section 17(1)</i> A Licensee must pay to the ERA the prescribe grant or renewal of the licence and within one the term of the licence.		

×

Observations

Documents 🗵 Compliance

Evidence, interviewed Site Manager, Technical Officer, Contracto Specialist listed staff					
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff.					
Documents: Include invoices and receipts					
Process 🗵 Outcome 🗵 Output 🗵 Reporting 🗵 Compliance 🗵					
Fees were not all paid on time e.g. the 2015/2016 annual fee was 5 days late. Five quarterly					
fees were also late.					
Issues					
Fees were not all paid on time.					
Recommendations					
Improve controls on regulatory obligations.					

Item 106	Adequacy of controls	Compliance rating
Generation Licence condition 5.1	rating	
	A	1
Licence: Generation		
Electricity Industry Act section 31(3)		
A Licensee must take reasonable steps to mir		
suspension or restriction of the supply of elect	ricity due to an accident, e	emergency, potential
danger or other unavoidable cause.	1140.00	
Observations		
Documents 🗹 Compliance 🗹		
Evidence: interviewed Site Manager, Technic	al Officer, Contracts Spec	ialist, listed staff.
Documents: Include incident log.		
Process 🗹 Outcome 🗹 Output	☑ Reporting ☑	Compliance 🗹
There have been 27 forced interruptions of su	pply from generator faults	, exhaust air cowl,
HRSG damper faults and system outages. Als	so the system is islanded w	when there is a threat of
lightning. All interruptions were minimized.		
Issues		
None.		
Recommendations		
None.		
1		
Itom 407	Adaguacy of controls	Compliance rating

Item 107	Adequacy of controls	Compliance rating		
Generation Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Act section 41(6)				
A Licensee must pay the costs of taking an inte	rest in land or an easem	ent over land.		
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Technica	I Officer, Contracts Spec	ialist, listed staff.		
Documents: Not applicable				
Process Outcome Output	□ Reporting □	Compliance		
No land has been acquired under Part 9 of the Land Administration Act and therefore no costs				
and expenses for taking an interest in land or an easement over land. There has been no land				
acquired in the audit period.				
Issues				
None				
Recommendations				
None				

2.19.2 ELECTRICITY LICENCE – LICENCE CONDITIONS AND OBLIGATIONS

Item 119 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating				
Licence: Generation						
the Australian Accounting Standards Board Sta Standards.	Generation Licence condition 12.1 A Licensee and any related body corporate must maintain accounting records that comply with the Australian Accounting Standards Board Standards or equivalent International Accounting					
Observations						
DocumentsImage: ComplianceImage: ComplianceEvidence:interviewed Site Manager, TechnicalDocuments:The Tronox annual report declaratThe Tronox financial accounts refer to compliar(International Financial Reporting Standards aradopted by the US Securities and Exchange ComplexesProcessImage: OutcomeThe TroneImage: Output	ion by the financial auditonce with the appropriate and US Generally Accepter commission.)	or has been sighted. accounting standards d Accounting Principles				
The Tronox annual reports/business plan show with Australian Accounting Standards Board (A		ting standards - comply				
Issues		1				
None						
Recommendations						
None						
Item 120	Adequacy of controls	Compliance rating				
Electricity Industry Act section 11	rating Not Performed	Not Rated				
Licence: Generation						
Generation Licence condition 13.4 A Licensee must comply with any individual performance standards prescribed by the ERA.						
Observations						
Documents Compliance						
Evidence: interviewed Site Manager, Technica Documents: Not applicable.	l Officer, Contracts Spec	ialist, listed staff.				
Process	□ Reporting □	Compliance				
There are no individual performance standards	applied by the ERA to as	ssess compliance.				
Issues						
None						
Recommendations						
None						
Item 121 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating				
Licence: Generation						
Generation Licence condition 14.2 A Licensee must comply, and require its auditor to comply, with the ERA's standard audit guidelines dealing with the performance audit. Observations						
Documents 🗹 Compliance 🗹						

Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff. Documents: The audit plan was forwarded to the ERA, approval of the auditor obtained prior to appointment.

Process	$\mathbf{\Sigma}$	Outcome	$\mathbf{\Sigma}$	Output	$\mathbf{\Sigma}$	Reporting	$\mathbf{\nabla}$	Compliance	\checkmark
The Licensee has contracted with the auditor to comply with the requirements.									
Issues									
None									
Recommendations									
	ation								
None									

Item 122	Adequacy of controls	Compliance rating		
Electricity Industry Act section 11	rating			
	A	1		
Licence: Generation				
Generation Licence condition 20.5				
A Licensee must comply, and must require the				
aspects of the ERA's standard guidelines deali	ng with the asset manage	ement system review.		
Observations	14000			
Documents 🗹 Compliance 🗹				
Evidence: interviewed Site Manager, Technica				
Documents: The AMS review plan has been for	orwarded to the ERA appr	roval of the reviewer		
obtained prior to appointment.				
Process 🗹 Outcome 🗹 Output	☑ Reporting ☑	Compliance 🗹		
The Licensee has contracted with the reviewer	to comply with the requir	ements.		
Issues				
None				
Recommendations				
None				
Item 123	Adequacy of controls	Compliance rating		
Electricity Industry Act section 11	rating			
	Not Performed	Not Rated		
Licence: Generation				
Generation Licence condition 15.1				
A Licensee must report to the ERA, in the man	ner prescribed, if a Licens	see is under external		
administration or there is a significant change in	n the circumstances upor	which the licence was		
granted which may affect a Licensee's ability to	meet its obligations.			
Observations	alles.			
Documents Compliance				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff.				
Documents: Not applicable.				
Process Outcome Output	□ Reporting □	Compliance		
The Licensee is not under external administration so not able to assess compliance with advice				
requirements.				
Issues				
None				
Recommendations				
None				

Item 124	Adequacy of controls	Compliance rating			
Electricity Industry Act section 11	rating C	2			
Licence: Generation					
Generation Licence condition 16.1 A Licensee must provide the ERA, in the mann in connection with its functions under the Elect		nation the ERA requires			
Observations					
Documents 🗵 Compliance 🗵					
Evidence: interviewed Site Manager, Technica Site Superintendent advised that there have be other than the Compliance Report. Documents	een no requests for inforn :	nation from the ERA			
Process Image: Contract of the contrac		-			
Issues					
Reports were late Recommendations					
Improve controls on regulatory requirements.	1 march				
Item 125 Electricity Industry Act section 11	Adequacy of controls rating Not Performed	Compliance rating Not Rated			
Licence: Generation	Not Fenomed	Nothaled			
A Licensee must publish any information it is d timeframes specified. Observations					
Documents Compliance	ol Officer Contracto Space	iolist listed stoff			
Evidence: interviewed Site Manager, Technica Documents: Not applicable.	a Onicer, Contracts Spec	alist, listed stall.			
Process					
The ERA has not directed any information to be published so unable to assess compliance with publishing requirements.					
Issues					
None					
Recommendations					
None					
Item 126 Electricity Industry Act section 11	Adequacy of controls rating A	Compliance rating			
Licence: Generation					
Generation Licence condition 18.1 Unless otherwise specified, all notices must be in writing.					
Observations					
Documents 🗹 Compliance 🗹					
Evidence: interviewed Site Manager, Technica Documents: Sample communication with ERA	Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff.				
Process 🗹 Outcome 🗹 Output	Process 🗹 Outcome 🗹 Output 🗹 Reporting 🗹 Compliance 🗹				
No notices have been required by the ERA. All writing.	No notices have been required by the ERA. All material communication with the ERA is in writing.				

Issues None Recommendations

None

2.19.3 ELECTRICITY INDUSTRY METERING CODE – LICENCE CONDITIONS AND OBLIGATIONS (ALL LICENCE CONDITION LICENCE CLAUSE 5.1)

Item 324	Adequacy of controls	Compliance rating	
Licence condition 5.1	rating		
	Not Performed	Not Rated	
Licence: Generation			
<i>Electricity Industry Metering Code clause 3.3B</i> A user who is aware of bi-directional flows at a metering point which was not previously subject to a bi-directional electricity flows or any changes in a customer's or user's circumstances in a metering point which will result in bi-directional electricity flows must notify the network operator within 2 business days.			
Observations			
Documents Compliance			
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff,			
inspected Generation plant. Docum	ents: n/a		
Process 🛛 Outcome 🗆	Output Reporting	Compliance	
The Licensee has no meters with all with the Licensee consuming power the steam or electricity for manufact directional and there have been no ch point.	when not generating or generating uring and can export power. These	g insufficiently to provide e meters were always bi-	
Issues			
None	and the second s		
Recommendations			
None			

Item 360	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 3.11	1(3)			
A Code participant who becomes aware of an	outage or malfunction of	a metering installation		
must advise the network operator as soon as	practicable.			
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff,				
inspected Generation plant. Documents: n/a.				
Process Outcome Output	🗆 🗆 Reporting 🗆	I Compliance 🛛		
The Licensee has no meters with all metering by Western Power. The Licensee is not aware of				
any outage or malfunction to require advice.				
Issues				
None				

Recommendations	
None	

Item 364 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating			
Licence: Generation	Not Performed	NUL RALEU			
<i>Electricity Industry Metering Code clause 3.27</i> A person must not install a metering installation on a network unless the person is the network operator or a registered metering installation provider for the network operator doing the type of work authorised by its registration.					
Observations					
Documents Compliance					
Evidence: interviewed Site Manager, Technicinspected Generation plant.Documents: n/a.ProcessDOutcomeDOutput					
The Licensee has no tariff meters with all met					
Issues					
None					
Recommendations					
None					
Item 371	Adequacy of controls rating Not Performed	Compliance rating			
Licence condition 5.1 Licence: Generation	Not Performed	Not Rated			
<i>Electricity Industry Metering Code clause 4.4(1)</i> If there is a discrepancy between energy data held in a metering installation and data held in the metering database, the affected Code participants and the network operator must liaise together to determine the most appropriate way to resolve a discrepancy. Observations					
Documents □ Compliance □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process □ Outcome □ Output There has been no discrepancy between energy the metering database. The Licensee has no ta The Licensee has no metering database and the Licensee has no customers associated w performed/not rated. It has a customer associated w performed/not rated. It has a customer associated with the connection point. In any case the is required to be updated to the Code (subject existed). Issues None	□ Reporting □ data held in a metering instiff meters with all metering no metering installation to ith this metering point and ated with the connection p is not related to the genera is no involvement in the m installation predates the	I Compliance □ stallation and data held in Image by Western Power. Image by Western Power. allow a discrepancy. Image discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this is not a discrepancy. d this obligation is not point but this point bu			
None Recommendations					
None					
NULLE					

Item 372	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating	Net Detect		
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 4.5	(1)			
A Code participant must not knowingly permit th	e registry to be materially i	naccurate.		
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Techni	al Officer Contracts Spe	cialist_listed_staff		
inspected Generation plant. Documents: n/a				
Process		Compliance		
The Licensee did not knowingly permit the regi		· · ·		
no tariff meters with all metering by Western				
Power's registry other than their own details.		ç		
Issues				
None				
Recommendations				
Recommendations				
None				
Item 373	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating	Not Date 1		
	Not Performed	Not Rated		
Licence: Generation				
<i>Electricity Industry Metering Code clause 4.5(2)</i> Subject to subclause 5.19(6), if a Code participant, other than a network operator, becomes aware of a change to, or an inaccuracy in, an item of standing data in the registry, then it must notify the network operator and provide details of the change or inaccuracy within the timeframes prescribed. Observations				
Documents Compliance Compliance	L cal Officer, Contracts Spa	cialist listed staff		
inspected Generation plant. Documents: n/a		cialist, listed stall,		
Process		Compliance		
The Licensee has no tariff meters with all me				
customers to have any Western Power regist				
own data.		, 3		
Issues				
Nama				
None				
Recommendations				
None				
Item 388	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 5.4	(2)			
A user must, when reasonably requested by a network operator, assist the network operator to				
comply with the network operator's obligation under subclause 5.4(1).				
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Techni	cal Officer. Contracts Spe	cialist, listed staff.		
inspected Generation plant Documents: n/a				

The Licensee has no tariff meters with all metering by Western Power. There have been no requests from Western Power.
Issues
None
Recommendations
None

Item 401	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
<i>Electricity Industry Metering Code clause 5.16</i> If a user collects or receives energy data from a metering installation, then the user must provide the network operator with the energy data (in accordance with the communication rules) within the timeframes prescribed.				
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff, inspected Generation plant. Documents: n/a.				
Process Outcome Outcome Out	tput 🛛 Reporting 🗌	Compliance		
The Licensee has no tariff meters with all metering by Western Power. The Licensee does not collect or receive energy data from a metering installation related to the generation licence.				
Issues				
None				
Recommendations				
None				

Item 402	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation	1. A.			
Electricity Industry Metering Code clause 5.17(1)				
A user must provide standing data and validated, and where necessary substituted or				
estimated, energy data to the user's customer to which that information relates where the user				
is required by an enactment or an agreement to do so for billing purposes or for the purpose of				
providing metering services to the customer.				
Observations				
Documents Compliance				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff,				
inspected Generation plant. Documents: n/a.				
Process Outcome Output	t □ Reporting □	Compliance		
The Licensee has no tariff meters with all metering by Western Power. The Licensee has no				
requirement by an enactment or an agreement to provide standing data and validated, and				
where necessary substituted or estimated, energy data to the user's customer to which that				
information relates.				
Issues				
None				
Recommendations				
None				

Item 405 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated		
Licence: Generation	Notrenomed	Not Nated		
Electricity Industry Metering Code clause 5.18 If a user collects or receives information regarding a change in the energisation status of a metering point then the user must provide the network operator with the prescribed information, including the stated attributes, within the timeframes prescribed. Observations				
Documents				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff, inspected Generation plant. Documents: n/a. Process 〇 Utcome 〇 Utput Reporting Compliance □ The Licensee has no tariff meters with all metering by Western Power. The Licensee was not aware of any change of energisation status of a metering point during the audit period.				
None	10			
Recommendations				
None	1 marine			
	(E.	10		
Item 406 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated		
Licence: Generation				
electricity industry practice, use reasonable endeavours to collect information from customers, if any, that assists the network operator in meeting its obligations described in the Code and elsewhere, and provide that information to the network operator. Observations Documents Compliance Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff, inspected Generation plant. Documents: n/a. Process Outcome Output Reporting The Licensee has no tariff meters with all metering by Western Power. There have been no requests from Western Power. Issues				
None				
Recommendations				
None				
Item 407 Licence condition 5.1	Adequacy of controls rating Not Performed	Compliance rating Not Rated		
Licence: Generation				
<i>Electricity Industry Metering Code clause 5.19(2)</i> A user must, to the extent that it is able, collect and maintain a record of the prescribed information in relation to the site of each connection point with which the user is associated. Observations				
Documents Image: Compliance Image: Compliance Evidence: Interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.		cialist, listed staff,		

Process D Outcome D Output	t 🛛 Reporting 🖓] Compliance 🛛 🗆
The Licensee has no tariff meters with all met	ering by Western Power.	This connection point is
with Western Power and there is no requirem		
prescribed information from this connection p		
customers associated with the connection po		r has no involvement in
· · ·	Int of the Licensee.	
Issues		
None		
Recommendations		
Recommendations		
None		
Itom 400	Adaguagy of controls	Compliance rating
Item 408	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		
Electricity Inductor Metering Code electron Edd	2/2)	
Electricity Industry Metering Code clause 5.1		
Subject to subclauses 5.19(3A) and 5.19(6), t		
becoming aware of any change in an attribute	e described in subclause 5	5.19(2), notify the
network operator of the change.	114Ave	
Observations		
Documents 🔲 Compliance 🛛		
Evidence: interviewed Site Manager, Technic		cialist, listed staff,
inspected Generation plant. Documents: n/a.		
Process Outcome Output	t 🛛 Reporting 🗌	Compliance
The Licensee has no meters with all metering		
any changes in attributes.		
Issues		
issues		
Mana		
None		
Recommendations		
Recommendations		
Recommendations		
Recommendations None	Adequacy of controls	Compliance rating
Recommendations None Item 410	Adequacy of controls	Compliance rating
Recommendations None	rating	
Recommendations None Item 410 Licence condition 5.1		Compliance rating Not Rated
Recommendations None Item 410	rating	
Recommendations None Item 410 Licence condition 5.1 Licence: Generation	rating Not Performed	
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15	Not Performed	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15 The user must use reasonable endeavours to	Not Performed 9(6) ensure that it does not not	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described	Rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network operator of a standing data by the network operator of a standing data by the network operator of standing data by the network operator operator operator of standing data by the network operator o	Rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described	Rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations	Rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations Documents □	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user.	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic	rating Not Performed 9(6) ensure that it does not no in subclause 5.19(2) that rator to the user.	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.	rating Not Performed 9(6) ensure that it does not no in subclause 5.19(2) that rator to the user.	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic	rating Not Performed 9(6) ensure that it does not no in subclause 5.19(2) that rator to the user.	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.	rating Not Performed 9(6) ensure that it does not no in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.15 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: Interviewed Site Manager, Technic inspected Generation plant. Documents Outcome Understore Output The Licensee did not notify the network operation	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe cal Officer, Contracts Spe t □ Reporting □ ator of a change in an attri tan attri	Not Rated Dify the network cresults from the cialist, listed staff, 1 Compliance Dute described in
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Output The Licensee did not notify the network opera subclause 5.19(2) that results from the provision Item 410	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Utensee did not notify the network opera subclause 5.19(2) that results from the provisithe user. The Licensee has no tariff meters w	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated Defify the network a results from the Cialist, listed staff, Compliance Define described in the network operator to
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Understanding the network operation subclause 5.19(2) that results from the provision of the user. The Licensee has no tariff meters we been no requests from Western Power.	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated Defify the network a results from the Cialist, listed staff, Compliance Define described in the network operator to
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Utensee did not notify the network opera subclause 5.19(2) that results from the provisithe user. The Licensee has no tariff meters w	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations Documents Compliance Evidence: Interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Output The Licensee did not notify the network opera subclause 5.19(2) that results from the provis the user. The Licensee has no tariff meters w been no requests from Western Power. Issues	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network oper Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Understand Output The Licensee did not notify the network opera subclause 5.19(2) that results from the provisithe user. The Licensee has no tariff meters we been no requests from Western Power. Issues None	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe	Not Rated
Recommendations None Item 410 Licence condition 5.1 Licence: Generation Electricity Industry Metering Code clause 5.19 The user must use reasonable endeavours to operator of a change in an attribute described provision of standing data by the network ope Observations Documents Compliance Evidence: Interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Output The Licensee did not notify the network opera subclause 5.19(2) that results from the provis the user. The Licensee has no tariff meters w been no requests from Western Power. Issues	rating Not Performed 9(6) ensure that it does not not in subclause 5.19(2) that rator to the user. cal Officer, Contracts Spe t □ Reporting □ tor of a change in an attriion of standing data by the	Not Rated

Item 416	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 5.2				
A Code participant must not request a test or au				
participant is a user and the test or audit relates user or the Code participant is the IMO.	to a time or times at which	the user was the current		
Observations				
Documents Image: Compliance Evidence: Interviewed Site Manager, Technic	 cal Officer, Contracts Sne	cialist listed staff		
inspected Generation plant. Documents: n/a.		Cialist, listed stall,		
Process		Compliance		
The Licensee has no tariff meters with all met				
requests for tests or audits by either party.	C 7			
Issues				
None	1.0			
Recommendations				
None	1148.00			
Item 417	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
Licence: Generation	Not Performed	Not Rated		
Electricity Industry Metering Code clause 5.2				
A Code participant must not make a request une	der subclause 5.21(1) that i	is inconsistent with any		
access arrangement or agreement. Observations				
Documents Compliance Evidence: interviewed Site Manager, Technic		aialist listed staff		
inspected Generation plant. Documents: n/a.		cialist, listeu stall,		
Process Dutcome Dutput Deporting Dutput Compliance				
The Licensee has no tariff meters with all metering by Western Power. There have been no				
requests for tests or audits by either party.	0,1			
Issues				
None				
Recommendations				
None				
INDIE				
Item 435	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 5.22				
Upon request from a network operator, the curre				
network operator with customer attribute information	ation that it reasonably beli	eves are missing or		
incorrect within the timeframes prescribed. Observations				
	I			
Documents Compliance	 	aialist listed staff		
Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.		cialist, listed sta∏,		
Process D Outcome D Output		Compliance		

The Licensee has no tariff meters with all metering by Western Power. There have been no
requests.
Issues
None
Recommendations
None

140	A deguasy of controls	Compliance rating		
Item 448	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating			
	A	1		
Licence: Generation				
Electricity Industry Metering Code clause 6.1(
A user must, in relation to a network on which	it has an access contract	, comply with the rules,		
procedures, agreements and criteria prescribe	ed.			
Observations				
Documents 🗹 Compliance 🗹				
Evidence: interviewed Site Manager, Technic	al Officer, Contracts Spee	cialist, listed staff,		
inspected Generation plant. Documents: Wes	stern Power ETAC.			
Process 🗹 Outcome 🗹 Output	☑ Reporting	Compliance		
The Licensee has an access contract with We	stern Power. There have	been no breaches of		
the rules, procedures, agreements and criteria	a prescribed.			
Issues				
None				
Recommendations				
None				

A 1 Licence: Generation Electricity Industry Metering Code clause 7.2(1) Code participants must use reasonable endeavours to ensure that they can send and receive a notice by post, facsimile and electronic communication and must notify the network operator of a
<i>Electricity Industry Metering Code clause 7.2(1)</i> Code participants must use reasonable endeavours to ensure that they can send and receive a
Code participants must use reasonable endeavours to ensure that they can send and receive a
notice by post, facsimile and electronic communication and must notify the network operator of a
telephone number for voice communication in connection with the Code.
Observations
Documents 🗹 Compliance 🗹
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff,
inspected Generation plant. Documents: n/a.
Process ☑ Outcome ☑ Output ☑ Reporting ☑ Compliance ☑
The Licensee has no tariff meters with all metering by Western Power. Western Power has the
contact details and the licensee's control room operates 24/7.
Issues
None
Recommendations
None

Item 453 Licence condition 5.1		Adequacy of controls rating	Compliance rating
		Not Performed	Not Rated
Licence:	Generation		

Electricity Industry Metering Code clause 7.2(4)

If requested by a network operator with whom it has entered into an access contract, the Code participant must notify its contact details to a network operator within 3 business days after the request.

Observations

Documents
Compliance

Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff, inspected Generation plant. Documents: n/a.

ProcessIOutcomeIOutputIReportingIComplianceIThe Licensee has no tariff meters with all metering by Western Power. There has been no
request. Western Power has the contact details.IIII

Issues

None

Recommendations

Item 454	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		10
Electricity Industry Metering Code clause 7.2((5)	
A Code participant must notify any affected netw	ork operator of any change	e to the contact details it
notified to the network operator under subclause		
takes effect.		
Observations		
Documents Compliance		-
Evidence: interviewed Site Manager, Technic	al Officer, Contracts Spec	cialist, listed staff,
inspected Generation plant. Documents: n/a.		
Process Outcome Output	Reporting	Compliance
The Licensee has no tariff meters with all met	ering by Western Power.	There has been no
change in the contact details.		
Issues		
None		
Recommendations		
None		

Item 455		- /				acy of contro	ls	Compliance rating	l
Licence condi	Licence condition 5.1				ating lot Pe	erformed		Not Rated	
Licence:	Ge	eneration		•				Not Halou	
A Code partici of, confidential use or reprodu	pant i infor ice co	mation provided	subcla d to it u nation	uses 5.1 Inder or i	n coni	nection with th	e Cod	r permit the disclos e and may only closed or another	ure
Observations	5								
Documents		Compliance							
Evidence: int	ervie	wed Site Mana	ager, T	echnical	Offic	er, Contracts	Speci	alist, listed staff,	
inspected Ger	nerat	ion plant. Doc	ument	s: n/a.					
Process		Outcome		Output		Reporting		Compliance	
		no tariff meters ation to disclos		all meteri	ng by	Western Pov	wer. T	here has been no	

Issues				
None				
Recommendations				
None				
None				
Item 456	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating	NUTRAL		
Licence: Generation	Not Performed	Not Rated		
Electricity Industry Metering Code clause 7.6				
A Code participant must disclose or permit the c to be disclosed by the Code.	disclosure of confidential inf	ormation that is required		
Observations				
Documents Compliance Evidence: interviewed Site Manager, Technie	al Officer Contracts Spec	cialist listed staff		
inspected Generation plant. Documents: n/a.		Sidiist, listed stall,		
Process		Compliance		
The Licensee has no tariff meters with all met				
confidential information to disclose.				
Issues				
None				
Recommendations				
None				
RONS				
Item 457	Adequacy of controls	Compliance rating		
Licence condition 5.1	rating	Compliance rating		
	Not Performed	Not Rated		
Licence: Generation				
Electricity Industry Metering Code clause 8.1	(1)			
If any dispute arises between any Code particip		ause 8.2(3))		
representatives of disputing parties must meet v				
disputing party to the other disputing parties and good faith.	attempt to resolve the disp	oute by negotiations in		
Observations				
Observations Documents □ Compliance □ □ □ □ □		islist listed staff		
Observations Documents □ Compliance □ Evidence: interviewed Site Manager, Technic		cialist, listed staff,		
Observations Documents □ Compliance □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.				
Observations Documents □ Evidence: interviewed	t 🛛 Reporting 🗌	I Compliance 🛛		
Observations Documents □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process □ Outcome □ Output	t 🛛 Reporting 🗌	I Compliance 🛛		
Observations Documents □ Compliance □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process □ Outcome □ Output The Licensee has no tariff meters with all meters Documents Image: Note State St	t 🛛 Reporting 🗌	I Compliance 🛛		
Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Process Outcome Understand Output The Licensee has no tariff meters with all meters disputes to resolve.	t 🛛 Reporting 🗌	I Compliance 🛛		
Observations Documents Compliance Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process Outcome Votes Outcome Process Outcome Image: State Stat	t 🛛 Reporting 🗌	I Compliance 🛛		

Item 458	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 8.1(2)	

If a dispute is not resolved within 10 business dan negotiations, the disputing parties must refer the disputing party who must meet and attempt to re	e dispute to a senior manag	gement officer of each
Observations		5
Documents		
Evidence: interviewed Site Manager, Technic	l cal Officer, Contracts Spe	cialist listed staff
inspected Generation plant. Documents: n/a.		
Process		Compliance
The Licensee has no tariff meters with all met	·	
disputes to resolve.		
Issues		
None		
Recommendations		
None		
Item 459	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 8.1	(3)	
If the dispute is not resolved within 10 business		ferred to senior
management negotiations, the disputing parties		
of each disputing party who must meet and atte	mpt to resolve the dispute	by negotiations in good
faith.		
Observations		
Documents Compliance		
Evidence: interviewed Site Manager, Technic	cal Officer, Contracts Spe	cialist, listed staff,
inspected Generation plant. Documents: n/a.		
Process 🛛 Outcome 🖾 Output		□ Compliance □
The Licensee has no tariff meters with all met	tering by Western Power.	There have been no
disputes to resolve.		
Issues		
None		
Recommendations		
None		
None		
Item 460	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 8.1	(A)	
	(4)	
If the dispute is resolved by representative head		nt negotiations or CEO
If the dispute is resolved by representative nego negotiations, the disputing parties must prepare	otiations, senior manageme	
negotiations, the disputing parties must prepare adhere to the resolution.	otiations, senior manageme	
negotiations, the disputing parties must prepare	otiations, senior manageme	
negotiations, the disputing parties must prepare adhere to the resolution.	otiations, senior manageme	
negotiations, the disputing parties must prepare adhere to the resolution. Observations	tiations, senior manageme a written and signed recor	d of the resolution and
negotiations, the disputing parties must prepare adhere to the resolution. Observations Documents □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.	a written and signed recor	d of the resolution and
negotiations, the disputing parties must prepare adhere to the resolution. Observations Documents □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a. Process □ Outcome □	a written and signed recor a written and signed recor cal Officer, Contracts Spe	d of the resolution and cialist, listed staff,
negotiations, the disputing parties must prepare adhere to the resolution. Observations Documents □ Evidence: interviewed Site Manager, Technic inspected Generation plant. Documents: n/a.	a written and signed recor a written and signed recor cal Officer, Contracts Spe	d of the resolution and cialist, listed staff,

Issues	
None	
Recommendations	
None	

Item 461	Adequacy of controls	Compliance rating
Licence condition 5.1	rating	
	Not Performed	Not Rated
Licence: Generation		
Electricity Industry Metering Code clause 8.3(2)	
The disputing parties must at all times conduct t	hemselves in a manner whi	ich is directed towards
achieving the objective in subclause 8.3(1).		
Observations		
Documents Compliance		
Evidence: interviewed Site Manager, Technic	cal Officer, Contracts Spec	cialist, listed staff,
inspected Generation plant. Documents: n/a.		
Process Outcome Output	Reporting	Compliance
The Licensee has no tariff meters with all met	ering by Western Power.	There have been no
disputes to resolve.		
Issues	1 27	
None		
Recommendations		
None		

2.20 ASSET MANAGEMENT SYSTEM REVIEW RESULTS AND RECOMMENDATIONS

Asset Planning	Process/Policy rating A	Effectiveness rating 1
1. Asset planning	re focused on meeting customer r	and in the mest effective
	ering the right service at the right p	
Observations		
located at Kwinana in West is publicly listed company w Exchange. The KMK coger heat recovery steam gener and also exports excess por Interconnected System, SW party- Monadelphous Grou (electricity and steam output	of titanium dioxide and the KMK C tern Australia with the titanium dio with diverse interests and is listed heration facility consists of a 36MV ator, (HRSG), that supplies power ower as part of the balancing mark VIS. The Cogen plant is operated p Limited. Tronox provides the operation and approves any maintenance and Operating and Maintenance Ag	xide pigment plant. Tronox on the New York Stock V Frame 6 gas turbine and r and steam to the facility set through the South West and maintained by a third erating framework e outside of the routine

The generator was originally part of the Verve fleet at Pinjar Power Station and relocated to Kwinana by Verve (then Western Power) as part of a supply agreement. The plant was subsequently purchased by Tronox. The Licensee is primarily a mineral manufacturer on this site and generation of electricity is secondary to mineral production and to that end the key output of the plant is production steam and then electricity for manufacturing and if there is excess to participate in the electricity market.

Asset management has to be part of the context of the licensed operations as part of the business of the company which is mineral manufacturing. The licensed facilities primarily exist to facilitate manufacturing and are governed by the life of the manufacturing plant. The life cycle of generation assets can be different to the life of a manufacturing plant. Asset planning will be subservient to manufacturing plant planning. That is, there will be no planning for licensed assets that are not dependent on manufacturing plant development.

The Licensee has developed an asset management plan for the operation and maintenance of the licensed assets. The Licensee has asset management plans for their manufacturing business of which the licenced assets are a small part. There have been no plans to develop the assets or extend the assets in the review period. The license did investigate disposing of the assets but decided not to do so in the review period.

Service strategies and service standards are set out in asset planning documents.

Evaluation Criteria summary Licensee

1.1 Asset management plan covers key requirements.

A1

Response	int	ormation on key i	requ	irements for this s	site.	P plan provides the Licensee The AMP is adequate for the			
4.0		•		a small part of th					
1.2		Planning process and objectives reflect the needs of all stakeholders and is integrated with business planning.							
Deenenee		•		• •	the	needs of all stakeholders and			
Response:		The AMP meets this criterion and reflects the needs of all stakeholders and is integrated with business planning for manufacturing and then the							
		0				ricity generation is limited, but			
		•		-		s burned in the HRSG.			
1.3		rvice levels are d		-	5	A1			
Response:	Th	e AMP defines se	ervice	e levels for this sit	te. A	s the key requirement is steam			
				y is the key indica		,			
1.4	Nc	n-asset options (eg d	emand managem	ent)	are considered. A1			
Response:	Th	e AMS is substan	tially	about utilization	of th	e current assets as new			
	•	• •		-		needs. The production need			
		-			-	nd providing a steam boiler			
						ensed asset. This option was			
		nsidered but rejec ensee.	cted.	Further generation	on as	sset options are unlikely for this			
1.5			vnin	g and operating a	ssate	s are assessed. A1			
		-				sts of owning and operating			
rtesponse.						was considered and costed in			
						ervicing the production needs			
						h profitability being the major			
	dri	ving force.							
1.6	Fu	nding options are	eva	luated.		A1			
Response:		•		y what is necessa ons of the generat	•	o serve generating operational plant.			
1.7	Сс	sts are justified a	nd c	ost drivers identif	ied.	A1			
Response:						identification of cost drivers			
				reliability of supp	oly. T	he rejection a steam boiler was			
4.0		ost based decisio		· · · · ·					
1.8 Decement			-	ences of asset fai		-			
Response:				s on operation ar		cover the aspects of asset			
1.9				wed and updated		Allinenance.			
						annually (due April 2017).			
rteepenee			onte		lou .	anniaany (aao / pin 2011).			
Acatma	200	montaroooo	n d u	aliov definition					
· · · · · · · · · · · · · · · · · · ·		ement process a		-					
Process	\checkmark	Policy		Documentation					
Evidence	: inte	erviewed Site Mar	nage	r, Technical Offic	er, C	ontracts Specialist, listed staff.			
				•		mental Plans and Approvals,			
		•		igement policy, R	isk re	egister, O & M AMP			
Asset ma	nag	ement performa	nce						
Process		Availability		Use					
		-							

Issues

The Licensee has developed an asset management plan for the operation and maintenance of the licensed assets. The Licensee has asset management plans for their manufacturing business of which the licenced assets are a small part. There have been no plans to develop the assets or extend the assets in the review period. The license did investigate disposing of the assets but no decision to do so was made in the review period.

The internal reviews of the AMP are carried out annually.

Recommendation



Asset Cre	ation	Process/Policy rating B	Effectiveness rating 2
Asset crea	•	quisition ans the provision or improver wide benefits beyond the yea	
Observati	ons		
Asset man the busine primarily e manufactu manufactu planning. on manufa Procureme considerat	agement has to be ss of the company xist to facilitate man ring plant. The life ring plant. Asset cr That is, there will b cturing plant develo ent of major genera ole time. There are	sset creation / sample creation part of the context of the lice which is mineral manufacturin nufacturing and are governed cycle of generation assets ca eation will be subservient to r e no creation for licensed ass opment. tion plant is a very significant documented procedures for on the review period.	ensed operations as part of ng. The licensed facilities d by the life of the an be different to the life of a manufacturing plant sets that are not dependent t exercise taking
2.1 F a Response:	Subsetse Subsets Subse	ons are undertaken for new a asset solutions. ations occurred for Asset crea urement. There will be no ass eds.	set creation outside the
	Evaluations include Evaluations for thi asset creation.	<i>e all life-cycle costs</i> is site included life cycle cost	ANR ings but did not result in
	The Licensee has	nd engineering and business the resources to ensure sou s for example on the steam b	nd engineering and
	The Licensee has	s are documented and comp. the resources to ensure com completed but no commission	nmissioning tests are
e	Dogoing legal/environs assigned and under The responsibilitie and understood. L new project work	s of the AMS are assigned to egal, environmental and safe within the organisation and a	B2 the Contracts Specialist ety are key components of
Asset mai	nagement process	s and policy definition	
Process	Policy	☑ Documentation	

Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff. Documents: Asset management plan, Asset Register,

Asset management performance

Process	V	Availability	V	Use	Ø	

Issues

Asset management has to be part of the context of the licensed operations as part of the business of the company which is mineral manufacturing. The licensed facilities primarily exist to facilitate manufacturing and are governed by the life of the manufacturing plant. The life cycle of generation assets can be different to the life of a manufacturing plant. Asset creation will be subservient to manufacturing plant planning. That is, there will be no creation for licensed assets that are not dependent on manufacturing plant development. Regulatory compliance items not all complied with.

Recommendation

Improve controls for regulatory compliance items.

Asset Dis	spos	al	Pro A	ocess/Policy rati	ng	Effectiv Not Rat	veness rating ted	
Effective a disposal c	asse [:] of sui	-	ndei	s incorporate cons r-performing or un				
Observat	ions	5						
				lisposal / sample o	•			
the busine primarily e manufactu manufactu That is, th manufactu assets wit	ess c exist uring uring ere v uring h ste	of the company w to facilitate manu plant. The life cy plant. Asset disp will be no dispose plant requireme	hich ufact /cle bosa al of nts. ecid	of the context of the is mineral manufa uring and are gove of generation asse I will be subservie licensed assets the The Licensee con- ed to not proceed	acturing erned b ets can nt to ma nat are r sidered	The licens by the life of be different anufacturing not related to replacing the replacing the second second replacing the second second second replacing the second second second second second second second second second replacing the second second second second second second second second second second second second second second second second second second second se	ed facilities the to the life of a plant needs. o ne licensed	
3.1	Unde		der-	performing assets	are ide	entified as p	-	
Response 3.2	: Th bu ac <i>The</i>	t decided to not p tions for the licen reasons for unde	idere proce sed er-uti	s ed replacing the lic eed with that optio plant. No disposa <i>lisation or poor pe</i> <i>isposal undertake</i>	n. The l occurr rformar	option inclue	ded disposal / period.	
Response:	Со	omponents have l	beer	plant failures and disposed as they ht even if they are	/ becom	ne unservice		
3.3	-	osal alternatives	-		100110		A1	
				ave been evaluate	d even	if not impler	nented.	
	3.4 There is a replacement strategy for assets ANR Response: Replacement was determined by manufacturing needs or a finding from condition based maintenance. Parts are scarce and used parts have had to be sourced (such as AVR and spare rotor). No disposal occurred in review period.							
Asset ma	nag	ement process a	and	policy definition	1			
Process	V	Policy	V	Documentation	Ø			
			•	er, Technical Offic ent plan, O&M AM		tracts Spec	ialist, listed	
Asset ma	nag	ement performa	nce					
Process		Availability		Use				
Issues	<u> </u>	l	<u> </u>	1	<u> </u>			
				t to facilitate manu The life cycle of ge		•	•	

to the life of a manufacturing plant. Asset disposal will be subservient to manufacturing plant needs. That is, there will be no disposal of licensed assets that are not related to manufacturing plant requirements. No disposal occurred in review period.

Recommendation



4 Environmental analysis Environmental analysis examines the asset system environment and assesses all external factors affecting the asset system. Observations Standards / monitoring / reporting / breaches The Licensee has an Environmental Management Plan (EMP). Reporting and monitoring tools are appropriate. The Licensee has a number of environmental licences and no unresolved issues have arisen with respect to environmental matters. No non-compliances have been reported. Steam is the prime consideration for the Licensee with electricity use for the plant being consequential. Trading in the electricity market is bonus that is taken when available. The pincipal external threats to the assets relate the market for the manufactured product and to a lesser extent any changes to the electricity market in Western Australia. The manufacturing site is a major hazard site with the OSH issues that follow. The Tronox Pigment Plant (manufacturing plant) which is adjacent to the Cogen site is a major hazard facility (not the Cogen site itself). The Pigment Plant falls under the ambit of the Western Australia "Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007" due to the quantity and nature of hazardous materials that is stored and processed at the facility. This leads to an attitude of compliance on both sites. Evaluation Criteria summary Licensee A1 A.1 Opportunities and threats in the system environment was made by the Licensee. Change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 Performance standards (availability of service, capacity, con	Environmental analysis	Process/Policy rating A	Effectiveness rating
Standards / monitoring / reporting / breaches The Licensee has an Environmental Management Plan (EMP). Reporting and monitoring tools are appropriate. The Licensee has a number of environmental licences and no unresolved issues have arisen with respect to environmental matters. No non-compliances have been reported. Steam is the prime consideration for the Licensee with electricity use for the plant being consequential. Trading in the electricity market is bonus that is taken when available. The plant is currently constrained by a fault to 20MW which limits trading opportunities. The principal external threats to the assets relate the market for the manufactured product and to a lesser extent any changes to the electricity market in Western Australia. The manufacturing site is a major hazard site with the OSH issues that follow. The Tronox Pigment Plant (manufacturing plant) which is adjacent to the Cogen site is a major hazard facility (not the Cogen site iself). The Pigment Plant falls under the ambit of the Western Australia "Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007" due to the quantity and nature of hazardous materials that is stored and processed at the facility. This leads to an attitude of compliance on both sites. Evaluation Criteria summary Licensee 4.1 Opportunities and threats in the system environment are assessed A1 Response: Assessing opportunities and threats in system environment was made by the Licensee change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved A1 <td< td=""><td>Environmental analysis examin</td><th>•</th><th>ment and assesses all</th></td<>	Environmental analysis examin	•	ment and assesses all
The Licensee has an Environmental Management Plan (EMP). Reporting and monitoring tools are appropriate. The Licensee has a number of environmental licences and no unresolved issues have arisen with respect to environmental matters. No non-compliances have been reported. Steam is the prime consideration for the Licensee with electricity use for the plant being consequential. Trading in the electricity market is bonus that is taken when available. The plant is currently constrained by a fault to 20MW which limits trading opportunities. The principal external threats to the assets relate the market for the manufactured product and to a lesser extent any changes to the electricity market in Western Australia. The manufacturing site is a major hazard site with the OSH issues that follow. The Tronox Pigment Plant (manufacturing plant) which is adjacent to the Cogen site is a major hazard facility (not the Cogen site itself). The Pigment Plant falls under the ambit of the Western Australia "Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007" due to the quantity and nature of hazardous materials that is stored and processed at the facility. This leads to an attitude of compliance on both sites. Evaluation Criteria summary Licensee A1 4.1 Opportunities and threats in the system environment are assessed A1 Response: Assessing opportunities and threats in system environment was made by the Licensee change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. A1 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved A1 Resp	Observations		
arisen with respect to environmental matters. No non-compliances have been reported. Steam is the prime consideration for the Licensee with electricity use for the plant being consequential. Trading in the electricity market is bonus that is taken when available. The plant is currently constrained by a fault to 20MW which limits trading opportunities. The principal external threats to the assets relate the market for the manufactured product and to a lesser extent any changes to the electricity market in Western Australia. The manufacturing site is a major hazard site with the OSH issues that follow. The Tronox Pigment Plant (manufacturing plant) which is adjacent to the Cogen site is a major hazard facility (not the Cogen site itself). The Pigment Plant falls under the ambit of the Western Australia "Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007" due to the quantity and nature of hazardous materials that is stored and processed at the facility. This leads to an attitude of compliance on both sites. Evaluation Criteria summary Licensee 4.1 Opportunities and threats in the system environment are assessed A1 Response: Assessing opportunities and threats in system environment was made by the Licensee. Change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved A1 Response: The AMS meets this criterion with service standards defined for this site. Availability is key performance requirement. 4.3 Compliance with statutory and regulatory requirements A1 Response: There have been no noted environmental breaches for the assets covered by the licence during the review period. Quality of demineralized water has caused issues with managing NOx control but no breaches were noted. 4.4 Achievement of customer service levels for this site. Environmental	The Licensee has an Environm	nental Management Plan (EM	P). Reporting and
being consequential. Trading in the electricity market is bonus that is taken when available. The plant is currently constrained by a fault to 20MW which limits trading opportunities. The principal external threats to the assets relate the market for the manufactured product and to a lesser extent any changes to the electricity market in Western Australia. The manufacturing site is a major hazard site with the OSH issues that follow. The Tronox Pigment Plant (manufacturing plant) which is adjacent to the Cogen site is a major hazard facility (not the Cogen site itself). The Pigment Plant falls under the ambit of the Western Australia "Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007" due to the quantity and nature of hazardous materials that is stored and processed at the facility. This leads to an attitude of compliance on both sites. <i>Evaluation Criteria summary Licensee</i> 4.1 <i>Opportunities and threats in the system environment are assessed</i> A1 Response: Assessing opportunities and threats in system environment was made by the Licensee. Change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 <i>Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved</i> A1 Response: The AMS meets this criterion with service standards defined for this site. Availability is key performance requirement. 4.3 <i>Compliance with statutory and regulatory requirements</i> A1 Response: There have been no noted environmental breaches for the assets covered by the licence during the review period. Quality of demineralized water has caused issues with managing NOx control but no breaches were noted. 4.4 <i>Achievement of customer service levels</i> A1 Response: The AMP defines the customer service levels for this site. Environmental	arisen with respect to environm		
 4.1 Opportunities and threats in the system environment are assessed A1 Response: Assessing opportunities and threats in system environment was made by the Licensee. Change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved A1 Response: The AMS meets this criterion with service standards defined for this site. Availability is key performance requirement. 4.3 Compliance with statutory and regulatory requirements A1 Response: There have been no noted environmental breaches for the assets covered by the licence during the review period. Quality of demineralized water has caused issues with managing NOx control but no breaches were noted. 4.4 Achievement of customer service levels for this site. Environmental 	available. The plant is currently opportunities. The principal ext manufactured product and to a Western Australia. The manufa that follow. The Tronox Pigmer Cogen site is a major hazard fa under the ambit of the Western Facilities) Regulations 2007" do that is stored and processed at	y constrained by a fault to 20M ternal threats to the assets related the second	MW which limits trading late the market for the o the electricity market in d site with the OSH issues which is adjacent to the lf). The Pigment Plant falls is Safety (Major Hazard of hazardous materials
 4.1 Opportunities and threats in the system environment are assessed A1 Response: Assessing opportunities and threats in system environment was made by the Licensee. Change in Western Australian energy market may have an effect on such developments. The plant islands from the network when there is threat of lightning. 4.2 Performance standards (availability of service, capacity, continuity, emergency response, etc.) are measured and achieved A1 Response: The AMS meets this criterion with service standards defined for this site. Availability is key performance requirement. 4.3 Compliance with statutory and regulatory requirements A1 Response: There have been no noted environmental breaches for the assets covered by the licence during the review period. Quality of demineralized water has caused issues with managing NOx control but no breaches were noted. 4.4 Achievement of customer service levels for this site. Environmental 			
Quality of demineralized water has caused issues with managing NOx control but no breaches were noted. 4.4 Achievement of customer service levels A1 Response: The AMP defines the customer service levels for this site. Environmental	 4.1 Opportunities and the Response: Assessing opportunities and the Licensee. Charleftect on such deverthere is threat of lig 4.2 Performance standar emergency response Response: The AMS meets the Availability is key p 4.3 Compliance with state Response: There have been not state 	reats in the system environmen nities and threats in system en age in Western Australian energy elopments. The plant islands to phtning. Tak (availability of service, cap e, etc.) are measured and ach is criterion with service standa erformance requirement. Putory and regulatory requirement to noted environmental breach	nvironment was made by ergy market may have an from the network when bacity, continuity, lieved A1 ards defined for this site.
Response: The AMP defines the customer service levels for this site. Environmental	Quality of deminera	alized water has caused issue	es with managing NOx
up gas to be burned in HRSG.	Response: The AMP defines the requirements are m	he customer service levels for net. Steam requirements are r	r this site. Environmental

	\square	Policy	V	Documentation	V	
staff and	staff)ocum	nents: Environme		L Contracts Specialist, listed Management Plan (EMP) O &
Asset ma	inag	ement perform	ance			
Process	Ø	Availability	V	Use	V	
Issues						
None.						
Recomm	enda	ation				
None						

Asset ope	rations	Pro A	cess/Policy ratii	ng	Effectiveness ra 1	ating
Operations	operations functions relate to els and costs.	the da	y-to-day running	of asset	s and directly affect	t
Observatio	ons					
The systen	d procedures for as n is operated by We s appropriate for the	estern	Power from SWI		s n control. The asset	
			•		ormance is closely iintenance is contra	icted
	register is part of th ird procedures.	e mair	itenance system	and sup	ported by spread sł	neets
5.1 C le	evels required The AMS meets th maintenance takes The Generation sy	nis crite s place vstem i	erion with service consistent with s dispatched fror	standar manufac n system	d and linked to serv ds defined. Planned turing needs. n control. Operation d maintenance/relia	A1 d
		x whicl loping	h is primarily use a task hazard an	d for mai alysis fo	<i>tasks</i> intenance. Risk ana r all tasks on the sit	
n C	naterial, plans of co ondition and accou	mpone nting d	ents, an assessm lata	ent of as	ng asset type, locat sets physical/struct information in the I	tural A1
	Operational costs ar Operational costs monitored.				als are measured a	A1 nd
tł	Ctaff resources are a meir responsibilities The staff receives to Training requirement schedule but some operatives was lat Staff resources are	training ents ar e desir e.	g commensurate e monitored with able training sucl	with thei all obliga n as CPF	atory training on R for Mechanical	with A1
Asset mar	nagement process	and p	oolicy definition			
Process	☑ Policy	V	Documentation	\square		

Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff and staff on site listed. Documents: Asset Register, Spares List, O & AMP, Risk management policy, Risk register, training certificates.

Asset management performance

		1		1			
Process	$\mathbf{\nabla}$	Availability	$\mathbf{\nabla}$	Use	$\mathbf{\nabla}$		
		,					
Issues							
The asset	ope	ration is appropri	ate f	for the duty.			
				3			
Recomme	Recommendation						
Recomm	snac						
None							



Asset Maintenance	Process/Policy rating A	Effectiveness rating
6 Asset maintenance Maintenance functions relat and costs.	te to the upkeep of assets and di	irectly affect service levels
Observations		
•	r asset maintenance / sample act tion is used by Tronox for the ger	
inspection of the plant is rou developed. Some spares ar spare have been sourced (e rotor). Time based mainten	nadelphous to undertake their ma utinely carried out. Inventory of c re not available from the equipme e.g. Automatic Voltage Regulator ance is routinely carried with son machines such as water feed pu	ritical spares has been ent manufacturer and usec r (AVR) and spare turbine ne condition based
type of equipment. The resc are the operating procedure all obligatory training on sch for Mechanical operatives w arising that might be expect the rotor that is limiting outp the HRSG. The controls are would be expected for new and the cost benefit of repla	well into the future and these action ourcing is appropriate and ongoin es and practices. Training require hedule but some desirable training vas late. There are some mainten ted for plant of this age. There are but and with hydraulic issues with e robust and meet A rating. The p plant but all reasonable corrective acing with new plant have not be ctive considering where it is in its	ng training is evident as ements are monitored with ng such as First Aid CPR nance issues that are re vibrations problems with n the diversion damper to performance is not what ve actions have been taker en achieved and therefore
levels required Response: Policies and pro criterion with se maintenance wh 6.2 Regular inspection Response: The MEX mainte scheduling of in	cies and procedures are docume ocedures are documented. The b ervice standards defined. MEX re hich is used to improve asset ma ns are undertaken of asset perfo enance planning system fulfils thi spections to assess condition. T	A1 pusiness plan supports this ports overdue inagement controls. <i>armance and condition</i> A1 is criterion by regular ime based schedules are
condition based etc.).	cal inspection, testing and collect l analysis (eg vibration analysis, s	water quality sampling
documented and	ns (emergency, corrective and pro completed on schedule	A1
recorded in the	dition based) and preventative m MEX system and completed on a vsed and operational/maintenance	schedule.
necessary	lysed and spares sourced even i	A1
•	e not available. Tracking of crack	

		•		ied to prioritise ma		
Response			•	rioritize maintenar nen according to r		Tasks are scheduled on
6.6				easured and moni		
						and monitored by the
		ntractor and pas				
Asset ma	nag	ement process	and	policy definition		
Process	V	Policy	V	Documentation	V	
			•			Contracts Specialist, listed
				•	ster,	Spares List, O & M AMP,
Risk mana	ager	nent policy, Risk	regis	ster		
Asset ma	nag	ement performa	ance			
Process	Ø	Availability	V	Use	V	
lssues	7	up.s.		14	An	
None.		(Fig.			÷.	
Recomme	enda	ation			1	
None		1 15				
1 tono						
		Reas			1	

Asset Management Information System	Process/Policy rating A	Effectiveness rating							
An asset management inform	7 Asset Management Information System (MIS) An asset management information system is a combination of processes, data and software that support the asset management functions								
Observations									
Policies and procedures									
of elements. The maintenance software system MEX V15 (c	ent asset management informatice management system based described in section 6 above). Sed activities. The system was	l on the MEX maintenance The system allows for both							
There is good documentation	ase is controlled (passwords) a n for data recovery procedures n up the servers to ensure data	which include operating on							
Evaluation Criteria summary									
7.1 Adequate system of	locumentation for users and IT	operators A1							
	Response: The IT system is well documented. The system is intuitive with online assistance and documentation is rarely required. The viewing of Historic								
7.2 Input controls incluinto the system	de appropriate verification and	l validation of data entered A1							
	sy to use with a maintenance and includes appropriate verific system.								
Response: Logical control is	cess controls appear adequate adequate with hierarchical act tomatically logged out of comp	cess by password.							
<u> </u>	ccess controls appear adequa	te A1							
Server room for N Room which is se nightly to Perth H		for SCADA is in switch I in safe and backed up							
	<i>dures appear adequate and ba</i> arried out daily and weekly on	-							
7.6 Key computations accurate	related to Licensee performand	ce reporting are materially A1							
computations rela	regular licence compliance co ated to Licensee performance extent possible to assess with	reporting are materially							
7.7 Management repor obligations	ts appear adequate for the Lic	ensee to monitor licence A1							

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Response: Management reports to monitor licence obligations are on spreadsheets. The key reports are for performance monitoring. Reports on MEX are adequate for operation and maintenance of the plant.

Asset management process and policy definition

Process	V	Policy	\checkmark	Documentation	Q			
Evidence	: inte	erviewed Site Mar	nage	er, Technical Offic	er, C	Contracts Specialist, listed		
staff and s	staff	on site listed. Do	cum	ents: Tronox ene	rav b	oudget, Asset management		
		MEX, viewing of H			37			
plan, view			11510	ncal ualabase.				
Asset ma	nag	ement performa	nce					
		1		1				
Process	\checkmark	Availability	\checkmark	Use	\checkmark			
lssues	/							
None								
1400								
Recommendation								
Necommentation								
None		100	-		1.1			
NOTE								



Risk man	anagement Process/Policy rating Effectiveness rating							
8 Risk management Risk management involves the identification of risks and their management within an acceptable level of risk.								
Observations								
The Licen	<i>Policies and procedures</i> The Licensee has a documented risk management procedure and there is evidence that risk based approaches is being carried out.							
				oritised the threat ch are based on a			plant and developed of risks.	
8.1 Response	Evaluation Criteria summary 8.1 Risk management policies and procedures exist and are being applied to minimise internal and external risks associated with the asset management system. A1 Response: The AMS meets this criterion. The risk management section of the plan set out risks, risk assessment and risk mitigation. There is consideration of areas of concern and associated risks.							
Response	 8.2 Risks are documented in a risk register and treatment plans are actioned and monitored. A1 Response: The risk process is set out in the AMP. There is a risk register as part of AMP. The risk register is reviewed annually internally and externally. There are issues of managing aging plant such as this, including sourcing used parts where new are not available. 8.3 The probability and consequences of asset failure are regularly assessed A1 Response: During the review period, the risks of asset failures have been assessed based on probability and consequence parameters. Forced outage events 							
Asset ma				e likely frequency policy definition	/conse	equer	nces of future events.	
Process		Policy		Documentation				
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff and staff on site listed. Documents: Asset Register, Spares List, Asset Management Plan								
Asset management performance								
Process	Process 🗹 Availability 🗹 Use							
Issues None								
Recomm	enda	ation						
None								

Continge	ency	planning	Pro A	ocess/Policy rati	ng	Effectiveness rating				
	9 Contingency planning Contingency plans document the steps to deal with the unexpected failure of an asset.									
Observat	tions	i								
•	Development of contingency plans / currency The Licensee has good documentation of its data recovery plans.									
				threats to specific inventory of spare	•	t not yet developed as been acquired.				
and majo	r shu d on	tdowns allowed t condition based i	o de	al with potential is	sues. Ma	veral years, with minor aintenance is partly ritical items for indicators				
The main outages.	tenai	nce regime is gea	ared	to keeping the pla	ant opera	tional without forced				
	 Evaluation Criteria summary 9.1 Contingency plans are documented, understood and tested to confirm their operability and to cover higher risks Response: The AMS meets this criterion despite there being no explicit contingency plan there is an emergency management plan and infrastructure risks through the asset management plan. Critical spares are identified and acquired where available and used parts are sourced where new are not available. Routine testing is scheduled, with one emergency exercise per year and 2 emergency fire drills per year. 									
Process		Policy	V	Documentation	$\mathbf{\nabla}$					
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff and staff on site listed. Documents: Emergency management plan, asset management plan. Asset management performance										
Process		Availability	V	Use						
Issues										
None										
Recomm	enda	ation								
None										

Financial planning	Process/Policy rating A	Effectiveness rating							
10 Financial planning The financial planning component of the asset management plan brings together the financial elements of the service delivery to ensure its financial viability over the long term.									
Observations									
<i>Financial planning process / plans</i> The Licensee carries out budgeting and monitoring processes. The licensed facilities are a budget item in the manufacturing business's financial plan. There is a budgeting process set out in the asset management plan for the operational and maintenance elements.									
Costs are accrued monthly and go to the parent body's executiv philosophy document together	ves. There is a business plan v								
Evaluation Criteria summary									
 10.1 The financial plan states the financial objectives and strategies and actions to achieve the objectives A1 Response: There is a financial budget for the licensed assets which is a financial plan given the simplicity of the financial model. 10.2 The financial plan identifies the source of funds for capital expenditure and recurrent costs A1 Response: The overall budget identifies the source of funds for recurrent costs and where required capital expenditure. 10.3 The financial plan provides projections of operating statements (profit and loss) and statement of financial position (balance sheets) A1 Response: The Licensee has operating statements (profit and loss) and statement of financial position (balance sheets) and monitors costs with respect to budgets. The licensed assets are a cost centre in the overall budget. 10.4 The financial plan provides firm predictions on income for the next five years and reasonable indicative predictions beyond this period A1 Response: The licensee predicts income for each year and reviewed annually and on at least 5 years out on rolling basis. 10.5 The financial plan provides for the operations and maintenance, 									
administration and capital expenditure requirements of the services A1 Response: The financial plan provides for the operations and maintenance, administration and capital expenditure requirements of the plant. 10.6 Significant variances in actual/budget income and expenses are identified and corrective action taken where necessary A1 Response: When significant variation in expenditure or budget are noted this is investigated. Funds have been provided for preventative maintenance program to improve income. Asset management process and policy definition									
Process 🗹 Policy	☑ Documentation ☑								

Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed staff and staff on site listed. Documents: asset management plan							
Asset ma	nag	ement performa	nce				
Process	\checkmark	Availability		Use	M	T	
FIUCESS		Availability		USE			
Issues	•				•	<u>.</u>	
None							
Recommendation							
None							



Capital explanning	cper	nditure	Pr A	ocess/Policy rati	ng	Effectiveness rating NR				
The capita replaceme	11 Capital expenditure planning The capital expenditure plan provides a schedule of new works, rehabilitation and replacement works, together with estimated annual expenditure on each over the next five or more years.									
expected	Since capital investments tend to be large and lumpy, projections would normally be expected to cover at least 10 years, preferably longer. Projections over the next five years would usually be based on firm estimates.									
Observat	ions	;								
The Licen year cycle	see s ar	• •	nd m			are on 1 year and 5- re a subset of the				
11.1	Th ac	tions proposed, i	esp	onsibilities and da	tes	es to be addressed, ANR ncluding the licensed				
	as	sets. But no capi	tal w	as required in the	review pe	eriod.				
11.2		ne plan provides i openditure	reas	ons for capital exp	penditure a	and timing of				
Response	as	sets. All items ne	ed a		or inclusior	ncluding the licensed n in the capital plan. But				
11.3				e plan is consisten nanagement plan	t with the	asset life and condition A1				
Response	e: Th inc	e asset manager	nen	t plan sets out iter diture required. Th						
11.4		nere is an adequa gularly updated a			that the ca	apital expenditure plan is				
Response	: Th		sets		ess. Trono	ox has financial review				
Asset management process and policy definition										
Process	\checkmark	Policy	V	Documentation						
Evidence: interviewed Site Manager, Technical Officer, Contracts Specialist, listed										
staff and staff on site listed. Documents: asset management plan										
Asset management performance										
Process	V	Availability	V	Use						
Issues										

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None.

Recommendation



Review of	f AN	S	Pro A	ocess/Policy rati	Effectiveness rating 1					
	12 Review of AMS The asset management system is regularly reviewed and updated.									
Observat	Observations									
AMS. The	As a supplier of electricity, the service delivery is heavily asset based and needs an AMS. There is ongoing review of the asset management plan.									
	A		•			et management plan ein are kept current A1				
	de Ind	scribed are kept	curr vs (e			t management system rmed of the asset A1				
Response				plan is reviewed	internally a	annually.				
Asset ma	nag	ement process	and	policy definition						
Process	V	Policy	Ø	Documentation	Ø					
staff and s	staff	on site listed. Do	ocun		Licence, A	cts Specialist, listed Asset Register, asset				
Asset ma	nag	ement performa	nce							
Process	V	Availability		Use						
Issues	Issues									
None										
Recommendation										
None										