Company Name
Aurora Energy Limited

AMP Planning Period
1 April 2013 – 31 March 2023

Asset Management Standard Applied

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	1	The draft AM Policy has been examined, and is considered to be sound. See further comments in adjacent column under 'user guidance'.	Discussions with Asset Manager; GM Asset Management; Policy	Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upor the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	1	Workstream 1.0 of the Asset Management Improvement Plan v1.4 sets out a number of actions to ensure that the AM Strategy is consistent with wider policies and strategies. A range of AM policies, porcess and strategies exist (site file 'aa Policy Managment Index'). See further comments in adjacent column under 'user guidance'.	performance; and changes could be made to future surveys where	In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg. as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same polices, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational polici and strategies. Other than the organisation's strategic plan, these could include those relating the health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	2	The AM Improvement Program will be reviewing the high-level drivers for Capts. See further comments in adjacent column.	Discussions with Asset Manager, GM Asset Management; Asset Specialist; Infrastructture Performance Manager: Asset classes/categories have been restructured with a view to better understanding life-cycle needs to strengthen understanding. The AMP is starting to better deline life(tycle strategies for each asset category whereby for each category, the asset and its management approach are discussed in detail. This is supported by operating instructions and Dyr forward maintenance programmes. Asset characteristics are being reviewed as is the integrity of data. Separate data repositories are creating some difficulties, but work is in progress to improve this. However the overall process not guided by a strong sense of asset criticality. Some specific examples include: Asset condition is considered (and has been for many years); tree growth is better estimated by identifying species, sensitive locations, criticality of customers etc. Overhead line inspection is moving to more objective criteria rather than estimating remaining life and that asset health indices are being derived. Asset age, condition, criticality, load growth, impact on SAID minutes, prevailing security etc are considered. These are used to prioritise projects eg. the Andersons Bay 33kV cable renewal was prioritised not because of the cable condition but because the load cannot be back-fed on the 6.6kV.	Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset manageme strategy and supporting working documents.

1

Commerce Commission Information Disclosure Template

2	26	Asset	How does the organisation	2	The AMP has been inspected.	Life-cycle management strategies are being refined and updated for	The asset management strategy need to be	The management team with overall responsibility for The organisation's asset management plan(s).
		management	establish and document its asset		See further comments in	each asset class, considering criticality/ consequences of failure. Assets	translated into practical plan(s) so that all parties	the asset management system. Operations,
		plan(s)	management plan(s) across the life		adjacent column.	are principally sorted by asset classes and includes logical domains	know how the objectives will be achieved. The	maintenance and engineering managers.
			cycle activities of its assets and			such as physical characteristics, financial, environmental, spatial,	development of plan(s) will need to identify the	
			asset systems?			supply criticality attributes. Assets are managed by classes, and age	specific tasks and activities required to optimize	
						profiles are considered. Annual and 10yr capital and maintenance	costs, risks and performance of the assets and/or	
						programmes are updated annually.	asset system(s), when they are to be carried out and	
							the resources required.	

Company Name
AMP Planning Period
1 April 2013 – 31 March 2023
Asset Management Standard Applied

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management, is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surparthe standard required to comply wit requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisational policies and strategies and considered the requirements of relevant stakeholders.	The organisation's process(es) surpt the standard required to comply wirequirements set out in a recognise standard. The assessor is advised to note in the Evidence section why this is the cas and the evidence seen.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surp the standard required to comply we requirements set out in a recognise standard. The assessor is advised to note in t Evidence section why this is the case and the evidence seen.

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26	Asset	How does the organisation	The organisation does not have an	The organisation has asset	The organisation is in the process of	Asset management plan(s) are	The organisation's process(es) surpass
	management	establish and document its asset	identifiable asset management plan(s)	management plan(s) but they are not	putting in place comprehensive,	established, documented,	the standard required to comply with
	plan(s)	management plan(s) across the life	covering asset systems and critical	aligned with the asset management	documented asset management	implemented and maintained for	requirements set out in a recognised
		cycle activities of its assets and	assets.	strategy and objectives and do not	plan(s) that cover all life cycle	asset systems and critical assets to	standard.
		asset systems?		take into consideration the full asset	activities, clearly aligned to asset	achieve the asset management	
				life cycle (including asset creation,	management objectives and the asset	strategy and asset management	The assessor is advised to note in the
				acquisition, enhancement, utilisation,	management strategy.	objectives across all life cycle phases.	Evidence section why this is the case
				maintenance decommissioning and			and the evidence seen.
				disposal).			

4

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

uestion No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	1	See further comments in adjacent column (based on discussions with key AM staff and contractors)	Discussions with Key staff: Overall, the AMP and specific work programs need to be better communicated to office and field staff. However, there has been an improvement in communication more recently. Corporate finance receives the AMP and associated expenditure plans, and is confortable with such involvement. Contracting teams are provided with the AMP and are involved in discussions about planned work, although the frequency of this is planned to become more regular to be effective. Currently working on the refinement of an annual/regular communication timeline to enable better input from staff, contracting teams and other stakeholders	Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	3	Role responsibilities in the AM Policy have been inspected. Info also in AMP and position descriptions. See further comments in adjacent column.	Discussions with Asset Manager; Policy Manager; GM Asset Management: The role descriptions in the AMP and AM Policy clearly define the accountabilities and key outcomes of each manager/team. New team structures within asset management reflects outcomes, and new job descriptions include AM outcomes.	The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	2	Monthly board financial reports have been examined. The new staff structure has been inspected. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; GM Asset Management; Contracting; Commercial Manager: Restructuring has enabled more focus for improved AM process and practices includeing project delivery. Asset systems are being refined to strengthen analysis and decision making; and provides opportunity to re-align systems to the new AM model. Routine budgets are disaggregated, and are reported on to that level. A 5 year financial plan is informed by the AMP. Unplanned works such as customer-led growth can be funded by substitution or by raising additional funding. The new AM group structure supports efficient delivery of the AMP and provides a chance to focus on long-term strategic issues. However, there is little advance warning for Aurora's main AM contractors of new competency requirements, FTE's or capital plant - quoted example that 3 or 4 years warning of line renewals would have eased the current shortages. There is a renewed appreciation of the need to continually renew assets.	implemented, which requires appropriate resources	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. If appropriate, the performance management team where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	2	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Policy Manager; GM Asset Management: A revised risk management framework is being developedand implemented that includes Disaster Recovery and Business Continuty. Development of this will continue in 2013/14. A series of risk management policies and processes exist; and these are outlined in the AMP.	Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's rist assessments and risk registers.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management plan(s)	How has the organisation communicated (its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or adhoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpa the standard required to comply wit requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surparthe standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	cover all the requirements for the efficient and cost effective	The organisation's process(es) surpa the standard required to comply wit requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpathe standard required to comply wit requirements set out in a recogniser standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	3	The AM Policy was inspected, and the responsibilities of the GM - AM were confirmed. Each of his direct reports also have well defined roles. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with GM Asset Management; Asset Manager; Policy Manager: Executive mandate exists is to ensure sound asset management. However further clarity on the finer aspects of some position descriptions is still required. A newly established Delivery Manager role has lifted performance by better defining project and program deliverables. The recently approved AM head-count is good evidence of resourcing, as well as introducing fresh thinking. Current management understands the importance of prioritisation.	In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s.4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s.4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, jo descriptions of post-holders, annual targets/objectives and personal development plan(sof post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	1	The board report for the Andersons Bay 33kV cable replacement indicates that an appropriate budgetary figure (53m) was included in the AMP. See further comments in adjacent column.	Discussions with Asset Manager; Policy Manager; CFO; Asset Specialist: The previously compiled long-term renewal funding requires further analysis to ascertain how approporiate (or otherwise) the quantum is; anecdotal evidence suggests inadequacies; and historic redistrution of funds has possibly contributed to a back-log. There are still some concerns over resrouce limitations re: in-house and external personell/contractor availability to deliver programmes. Some consideration is being given to how these issue can be overcome.	management to ensure sufficient resources are available. In this context the term 'resources'	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	3	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; GM Asset Management: Executive management support is evident and illustrated via communicating the importance of AM at team meetings and strategic planning sessions. Overall, AM is communicated resonably well internally and has had a lot of time invested in it, with the financial function being well involved. However, the wider understanding of end-to-end AM is not as strong as it could be; reliability tends to be taken as a given. Priorities seem to be well understood. Improvement is required on communication of specific AM strategies.	Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walk-abouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	2	The delegated financial authorities (DFA) have been examined, and are considered to have a sound basis that recognises the need to empower staff but also to limit risks associated with specific types of transactions. The Asset Services Contract has been examined. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager, HR Manager; Contracting: An asset services contract exists between Aurora and Delta; this includes performance criteria and penalty payments. However, grey areas exists that require futher clarification, which should be carried out through contract review. A revised Auaora strategy may also assist to provide clarification. During construction, critical features are inspected and producer statements are required from contractors. Pre-livening inspections are performed and post-completion inspections, but line work is an area that currently receives limited engineering inspection. Completion packages are required for contracting teams to get paid, which has effected a culture shift for improve collection/recording of asset information.	Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisatio and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated tritself that it has assurance of compliance of outsourced activities.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate people to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	The organisation's top management has not considered the resources required to deliver asset management.	The organisations top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisations top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.		The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset		See further comments in adjacent column (based on dicsussions with key AM staff	Discussion with HR Manager; Asset Manager: Recent focus on asset management teams has gone some way to help with this; and overall resource requirements are identified in the asset management	There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources
		management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?		and contractors)	improvement programme; however the link to an organisation-wide view of training requirements is currently limited; and tends to be done by individual managers. Also there is no single identified Training Officer for co-ordinating across the business. The cascade from the AM forward programmes to field-officer training requirements requires a lot more focus and development.	system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g., if the	responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract anservice level agreements.
49	Training,	How does the organisation identify	2	See further comments in	Discussions with Asset Manager, HR Manager; Contracting: A formal	asset management strategy considers 5, 10 and 15	Senior management responsible for agreement of	Evidence of an established and applied competence
	awareness and competence	competency requirements and then plan, provide and record the training necessary to achieve the competencies?		adjacent column (based on dicsussions with key AM staff and contractors)	development process is in place for managers and staff to use to identify competency gaps for each staff member, and develop a personalised training program. However, still at the starting point of refining core competency framework and development plans; cultural fit is being recognised as a key parameter. Retention of core engineering skills is also recognised as key. Contracting teams must demonstrate competencies. Requirements for new competencies are integrated into the 6-monthly training days.	to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg. PAS 55 refers		requirements assessment process and plan(s) in place to deliver the required training. Evidence the training programme is part of a wider, coordinated asset management activities training an competency programme. Evidence that training antivities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide informatic system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	2	See further comments in adjacent column (based on discussions with key AM staff and contractors)	Discussions with Asset Manager, Contracting: Recent restructuring and recruitment has factored in the requirements necessary for ensuring that people have approporate levels of competence within the AM teams, however there is still room for improvement. Extensive safety training is undertaken within the contracting teams; and competency certificates provided. However a review of contractor management and competency is required.	A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as th asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence Engineering Council, 2005.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	the need for assessing human resources requirements to develop and implement its asset management system.	There is limited recognition of the need to align these with the development and implementation of		capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
49	Training, awareness and competence		The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	recording the competencies achieved	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.			The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	2	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Systems Manager; Aset Manager, Commercial Manager, Financial Analyst: Two-way communication is becoming clearer and multi-level, multi-channel including appropriate top-down communication from the CEO. AM requirements are well communicated to the financial function to the point that disaggregated budgets are compiled. However there are some gaps in reporting physical progress of individual jobs to match financial reporting. Significant Transpower issues are both informally and formally reported to the GM - AM and CEO as appropriate; and meetings are held with Transpower 3x per year to discuss both routine and emerging issues. AM staff are responding well to feedback from contracting teams and starting to communicate more fully.	Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the	Top management and senior management representative(s), employee's representative(s),	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	2	The Integrated Asset Management Framework has been inspected. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions wiht Asset Systems Manager; Asset Manager: The AMP contains a high-level description and a more detailed description is currently being compiled (expect to score 3 by early 2014). There are a range of software and paper-based systems. A framework of the high-level systems such as GIS, CAD and SCADA exists, but that more detailed systems reside in other teams. Some process mapping has taken place and is being used to inform the further development for the asset management system. Also, the proposed re-development of the "Business Management System" will provide a structured framework for many of the existing policies, processes and procedures.	the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg. s.4.5 of PAS 55 requires the maintenance of up to date documentation of the	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	3	See further comments in adjacent column (based on dissussions with key AM staff and contractors)	Discussions with CFO; Infrastructure Performance; Asset Systems Manager, Financial Accountant: A review of the legacy data capturehas been carried out (2012) to determine its continued relevance to business drivers such as Risk and Value, but also to confirm the integrity of that data. There has been a lot of planning around IT reviews, particularly around scoping and planning. There is a strong focus on continually improving the AM IT. There is an understanding between the systems teams and operational/engineering teams of work requirements and needs. This will continue to be refined as other parts of the asset management framework mature.	management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as:		Details of the process the organisation has emplo to determine what its asset information system should contain in order to support its asset management system. Evidence that this has beer effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	3	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussion with Asset Manager: Information such as As-Builts, inspection records etc are put through a quality assurance process to determine data quality and integrity. There is an established base-line of integrity checks such as connectivity. A "completion package" (As-Builts) are keyed into the AM IS. A half-hourly database has a field for recording data quality, but other data like feeder loadings requires manual intervention.	The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, toget with the policies, procedure(s), improvement initiatives and audits regarding information control.

Сотралу Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication,	How does the organisation ensure	The organisation has not recognised	There is evidence that the pertinent	The organisation has determined	Two way communication is in place	The organisation's process(es) surpass
	participation and consultation	that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	the need to formally communicate any asset management information.	asset management information to be shared along with those to share it with is being determined.	pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
62	management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
63		How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed a controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpas the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

						Company Name	Aurora Energy Limited 1 April 2013 – 31 March 2023		
						AMP Planning Period			
	Asset Management Standard Applied								
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Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information	
64	Information	How has the organisation's ensured	3	See further comments in	Discussion with Asset Manager; Asset Systems Manager; Infrastructure	Widely used AM standards need not be prescriptive	The organisation's strategic planning team. The	The documented process the organisation employ	
	management	its asset management information		adjacent column (based on	Performance Manager: Scoping and discussion constinues to take	about the form of the asset management	management team that has overall responsibility for	to ensure its asset management information syste	
	_	system is relevant to its needs?		dicsussions with key AM staff	place regarding the alignment of business needs with the AM system	information system, but simply require that the asset	asset management. Information management team.	aligns with its asset management requirements.	
				and contractors)	and expected outputs. An improvement plan is being refined and	management information system is appropriate to	Users of the organisational information systems.	Minutes of information systems review meetings	
					implemented - refer to the Integrated AM Framework.	the organisations needs, can be effectively used and		involving users.	
						can supply information which is consistent and of			
						the requisite quality and accuracy.			
69	Risk	How has the organisation	2	The Risk Management	Discussions with Asset Systems Manager; Asset Manager; Commercial	Risk management is an important foundation for	The top management team in conjunction with the	The organisation's risk management framework	
05	management	documented process(es) and/or	-	Framework has been	Manager; Asset Specialist; Infrastructure Performacne Manager: A Risk			and/or evidence of specific process(es) and/ or	
	process(es)	procedure(s) for the identification		examined. See further	Management Framework exists and asset risks have been identified:	to understand the cause, effect and likelihood of	representatives. There may also be input from the	procedure(s) that deal with risk control mechanism	
	p ()	and assessment of asset and asset		comments in adjacent column	however further work is required to verify and provide relevant detail.	adverse events occurring, to optimally manage such	organisation's Safety, Health and Environment team.	Evidence that the process(es) and/or procedure(s)	
		management related risks		(based on dicsussions with key		risks to an acceptable level, and to provide an audit	Staff who carry out risk identification and	are implemented across the business and	
		throughout the asset life cycle?		AM staff and contractors)	being developed. These will feed into revised lifecycle strategies and			maintained. Evidence of agendas and minutes fro	
		,			related AM quality documentation as appropriate. The emphasis on in	standards require the organisation to have		risk management meetings. Evidence of feedback	
					service failure risk (eg. cast iron pot-heads, SD switchgear), safety risk	process(es) and/or procedure(s) in place that set out		to process(es) and/or procedure(s) as a result of	
					etc has increased over the last 18 months. Regulatory risk to revenue	how the organisation identifies and assesses asset		incident investigation(s). Risk registers and	
					is signficant and as such the Exec Team are continually kept informed.	and asset management related risks. The risks have		assessments.	
					SAIDI breaches pose a potentially signficant cost risk. The overhead	to be considered across the four phases of the asset			
					line inspection procedure has been reviewed to focus on descriptive	lifecycle (eg, para 4.3.3 of PAS 55).			

Widely used AM standards require that the output

adequate resource (including staff) and training is

equirement that the effects of the control measures team.

rom risk assessments are considered and that

are considered, as there may be implications in

esources and training required to achieve other

regulatory, statutory and other asset management

n s 4.4.8). It is necessary to have systematic and

uditable mechanisms in place to identify new and

hanging requirements. Widely used AM standards

the asset management system (e.g. procedure(s) and

Discussions with Asset Manager; Commercail Manager; Asset Systems In order for an organisation to comply with its legal, Top management. The organisations regulatory

rocess(es))

Staff responsible for risk assessment and those

identified to match the requirements. It is a further the organisation's Safety, Health and Environment

that it knows what they are (eg, PAS 55 specifies this asset management system. The organisation's

responsible for developing and approving resource

team. The organisation's legal team or advisors. The

equirements, the organisation first needs to ensure management team with overall responsibility for the accessible to those requiring the information and is

health and safety team or advisors. The

organisation's policy making team.

and training plan(s). There may also be input from

The organisations risk management framework. The

competency plan(s). The organisation should be able

organisation's resourcing plan(s) and training and

to demonstrate appropriate linkages between the

competency plan(s) to the risk assessments and risk

ontent of resource plan(s) and training and

control measures that have been developed.

The organisational processes and procedures for

ensuring information of this type is identified, made

incorporated into asset management strategy and

asset conditions rather than estimate remaining life. A change in risk appetite has seen staff become more aware of the need to embody risk thinking in their daily work. Event management system records staff activities eg. switch activated at time. Risks are mitigated by a range of activities including specific procedural steps, replacement of assets etc. Handover documents are being develope to identify risks and other proejct related issues from concept, through to detailed

Discussions with Asset Manager; Asset Specialist; Contracting: The

deployed. The AMP demonstrates some linkages between netwrok

and business risks with expenditure & resource requirements however

competencies and training. A more informed picture of overall asset

number of condemned poles, pot heads etc, that in turn results from a

changing awareness and risk appetite. Inspection records are fed back

Manager; CFO: Notification of impending statutory and regulatory

place. There are some individual RSS feeds etc of relevant statutory

requirements and reliance onn specialist advisors and consultants.

compliance reviews have been performed, and that the Audit & Risk

identifying legislative and regulatory changes, but it does happen

informally such as his involvement in the ENA working group. The

AMP outlines the main pieces of legislation influencing the business and minimum compliance standards are incorporated into objectives,

OAG audits are carried out (re Council ownership). Several

issues is received, but it is not clear that systematic procedures in

revised Risk Management Framework is still being finalised and

this information is not yet being used to its fullest extent to drive

ondition risks is being compiled from which a business case for

increased funding will be compiled. This results from an increased

to AM, and are then fed into the GIS.

processes and procedures.

design and delivery.

The board paper for the

management is being

resourced. See further

Andersons Bay 33kV cable

replacement embodies the

risks of in-service failure, and

rovides evidence that risk

comments in adjacent column

(based on dicsussions with key

AM staff and contractors)

See further comments in

and contractors)

adjacent column (based on

dicsussions with key AM staff

Use and

asset risk

information

naintenance of

Legal and other

How does the organisation ensure

that the results of risk assessments

provide input into the identification

of adequate resources and training

and competency needs?

What procedure does the

provide access to its legal.

and how is requirements

management system?

incorporated into the asset

organisation have to identify and

regulatory, statutory and other

asset management requirements

Committee meets 3x per year. However, there is no formal process for Jalso require that requirements are incorporated into

Сотрапу Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpa the standard required to comply wit requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpainthe standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpa the standard required to comply wit requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but hits is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpa the standard required to comply wit requirements set out in a recogniser standard. The assessor is advised to note in th Evidence section why this is the case and the evidence seen.

Company Name	Aurora Energy Limited	
AMP Planning Period	1 April 2013 – 31 March 2023	
Asset Management Standard Applied		
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)		

Question No. 88	Function Life Cycle Activities	Question How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	Score 3	Evidence—Summary A wide range of network policies were inspected. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	User Guidance Discussions with Asset Systems Manager; FCP; Contracting; Policy Manager: Processes for implementing and controlling AM are well understood within the Integrated AM Framework. Disaggregated budgets provide a strict control tool for controlling AM activities. Delegated financial authorities require reporting of all capital projects to the Board. The contracting teams work to agreed standards, as well as checking work quality and various inspections. There are some concerns from the AM contracting team (Delta) about the competencies of other contractors. Post-completion inspection of works is being improved, but some potential risks still exist around authorised materials and products (Master Trade model).	Why Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg. PAS 55 s 4.5.1) require organisations to have in place appropriate process(eps) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Who Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Record/documented Information Documented process(es) and procedure(s) which relevant to demonstrating the effective manager and control of life cycle activities during asset creation, acquisition, enhancement including des modification, procurement, construction and commissioning.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	2	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with CFO; Infrastructure Performance; Contracting; Financial Accountant: Although disaggregated budget embodies risk and performance, and are reported upon monthly, there is concern about the ability to report on physical progress. Tracking of physical project progress on small to medium projects needs to be improved. A wide range of tests, inspections etc are in place to ensure that standards are met, and that network standards could be altered to reflect varied outcomes such as a decreased risk appetite. Approving supplier companies rather than specific components has been a problem.	Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg. as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	2	The Risk Assessment Worksheet was examined. See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Asset Systems Manager; Contracting; Asset Specialist; Infrastructure Performance Manager: Condition data is captured for zone substation transformers and substation inspections, however the follow-up actions and use of this information from a forward planning perspective requires attention. A review of asset health indicators is commencing and procedures for assessing asset condition are being reviewed, in particular pole condition includes wider features such as location sensitivity and customer criticality. A major workstream involves not simply tinkering with inspection processes but questioning the fundamental basis of the processes. Leading indicators such as compliance with design and construction standards are used, and also lagging indicators such as SADI and SAFI. Contracting teams also carry out asset inspections, and feed the results back.	Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc Evidence of the reviews of any appropriate performance indicators and the action lists result from these reviews. Reports and trend analysis to performance and condition information. Evident the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	2	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Contracting; Asset Specialist; Infrastructure Performance Manager: There are clear roles around asset failure investigation that escalate based on criticality of assets. Fault restoration contractors have to report fault evidence. Data is analysed and any serious issues such as systemic faults etc identified. This has resulted in the network standards being amended to exclude certain equipment makes. Hazard Forms are submitted when defective assets are found. The defect analysis process is being refined.	Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failuincidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions o Internet etc.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
88	Life Cycle	How does the organisation	The organisation does not have	The organisation is aware of the need	The organisation is in the process of	Effective process(es) and procedure(s)	The organisation's process(es) su
	Activities	establish implement and maintain	process(es) in place to manage and	to have process(es) and procedure(s)	putting in place process(es) and	are in place to manage and control the	the standard required to comply
		process(es) for the implementation	control the implementation of asset	in place to manage and control the	procedure(s) to manage and control	implementation of asset management	requirements set out in a recogni
		of its asset management plan(s)	management plan(s) during activities		the implementation of asset	plan(s) during activities related to	standard.
		and control of activities across the	related to asset creation including	plan(s) during activities related to		asset creation including design,	Standard.
					management plan(s) during activities		
		creation, acquisition or	design, modification, procurement,	asset creation including design,	related to asset creation including	modification, procurement,	The assessor is advised to note in
		enhancement of assets. This	construction and commissioning.	modification, procurement,	design, modification, procurement,	construction and commissioning.	Evidence section why this is the o
		includes design, modification,		construction and commissioning but	construction and commissioning.		and the evidence seen.
		procurement, construction and		currently do not have these in place	Gaps and inconsistencies are being		
		commissioning activities?		(note: procedure(s) may exist but they	addressed.		
				are inconsistent/incomplete).			
91	Life Cycle Activities	How does the organisation ensure	The organisation does not have	The organisation is aware of the need	The organisation is in the process of	The organisation has in place	The organisation's process(es) su the standard required to comply
	Activities	that process(es) and/or	process(es)/procedure(s) in place to	to have process(es) and procedure(s)	putting in place process(es) and	process(es) and procedure(s) to	
		procedure(s) for the	control or manage the	in place to manage and control the	procedure(s) to manage and control	manage and control the	requirements set out in a recogn
		implementation of asset	implementation of asset management	implementation of asset management	the implementation of asset	implementation of asset management	standard.
		management plan(s) and control of	plan(s) during this life cycle phase.	plan(s) during this life cycle phase but	management plan(s) during this life	plan(s) during this life cycle phase.	
		activities during maintenance (and		currently do not have these in place	cycle phase. They include a process	They include a process, which is itself	The assessor is advised to note i
		inspection) of assets are sufficient		and/or there is no mechanism for	for confirming the	regularly reviewed to ensure it is	Evidence section why this is the
		to ensure activities are carried out		confirming they are effective and	process(es)/procedure(s) are effective	effective, for confirming the	and the evidence seen.
		under specified conditions, are		where needed modifying them.	and if necessary carrying out	process(es)/ procedure(s) are effective	
		consistent with asset management		, 0.	modifications.	and if necessary carrying out	
		strategy and control cost, risk and				modifications.	
		performance?				mounications.	
		performance:					
95	Performance and	How does the organisation	The organisation has not considered	The organisation recognises the need	The organisation is developing	Consistent asset performance	The organisation's process(es) s
33	condition	measure the performance and	how to monitor the performance and	for monitoring asset performance but	coherent asset performance	monitoring linked to asset	the standard required to comply
	monitoring	condition of its assets?	condition of its assets.	has not developed a coherent	monitoring linked to asset	management objectives is in place and	requirements set out in a recogn
				approach. Measures are incomplete,		universally used including reactive and	standard.
				predominantly reactive and lagging.	proactive measures are in place. Use	proactive measures. Data quality	
				There is no linkage to asset	is being made of leading indicators	management and review process are	The assessor is advised to note
				management objectives.	and analysis. Gaps and inconsistencies	appropriate. Evidence of leading	Evidence section why this is the
					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
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					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
					remain.	indicators and analysis.	and the evidence seen.
99	Investigation of	How does the organisation ensure	The organisation has not considered	The organisation understands the	The organisation are in the process of	indicators and analysis. The organisation have defined the	
99	Investigation of asset-related	How does the organisation ensure responsibility and the authority for	The organisation has not considered the need to define the appropriate	The organisation understands the requirements and is in the process of			The organisation's process(es) s
99	asset-related	responsibility and the authority for	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and	The organisation have defined the appropriate responsibilities and	The organisation's process(es) s the standard required to compl
99	asset-related failures,	responsibility and the authority for the handling, investigation and			The organisation are in the process of defining the responsibilities and authorities with evidence.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to	The organisation's process(es) s the standard required to compl requirements set out in a recog
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures,	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) s the standard required to compl
99	asset-related failures,	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to	The organisation's process(es) s the standard required to compl requirements set out in a recog standard.
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear,	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) s the standard required to compl requirements set out in a recog standard. The assessor is advised to note
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) s the standard required to compl requirements set out in a recog standard. The assessor is advised to note Evidence section why this is the
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear,	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) sthe standard required to compl requirements set out in a recog standard. The assessor is advised to note
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) s the standard required to compl requirements set out in a recog standard. The assessor is advised to note Evidence section why this is the
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) sithe standard required to complete requirements set out in a recognistandard. The assessor is advised to note Evidence section why this is the
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) s the standard required to compl requirements set out in a recog standard. The assessor is advised to note Evidence section why this is the
99	asset-related failures, incidents and	responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and	the need to define the appropriate	requirements and is in the process of	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the	The organisation's process(es) the standard required to comprequirements set out in a reconstandard. The assessor is advised to note Evidence section why this is the

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)	

uestion No.	Function	Question	Score Evidence—Summary	User Guidance	Why	Who	Record/documented Information
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The QMS Audit Plan for December 2011 to January 2013 was inspected.	Discussions with Asset Manager; Policy Manager; Asset Systems Manager; Infrastructure Performance Manager: A combination of audit and external review and internal review are anticipated. Policies are continually being reviewed and all policies have a review period, although there is some backlog. ISO 9000 requires annual internal reviews, for which an external reviewer is engaged.	This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg. the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriat audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Asset Specialist; Infrastructure Performance Manager: A non-comformance process is in place, but its consistent use across the business needs to be improved. A range of procedures are in place to eliminate poor performance (eg. asset inspections), and these procedures are being significantly reviewed to ensure their relevance and usefulness. Safety Action Goups have been established to improve workplace safety. There are various condition monitoring procedures such as transformer oil DGA, substation inspections, PD testing of switching, thermal imaging. The resulting data is reviewed and trended to identify issues, which are then passed to specifically skilled people for comment. These are then converted to action plans eg. replacement of cast iron pot-heads.	their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Asset Systems Manager; Infrastructure Performance Manager: There are pockets of paritally understood and well understood costs, risks etc, across various parts of the asset class and lifecycle space, but consistency across the business requires improvement. An AM Improvement Program exists and the importance of reviewing performance and feeding back any lessons learnt is recognised. A wide team are responsible for making sense of risk, criticality, location, condition etc and deriving a prioritised work program. Also see answer above.	Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather that reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s and process)ey reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	See further comments in adjacent column (based on dicsussions with key AM staff and contractors)	Discussions with Asset Manager; Asset Systems Manager; Infrastructure Performance Manager; Asset Specialist: Staff are part of industry groups, and attend training seminars such as NAMS, read bulletins etc. External networking of practitioners and collaboration are used. Information sources include EEA bulletins, interaction with other EDB's, with suppliers, attending conferences etc and training requirements are identified. Potentially new products are circulated for comment to identify issues and concerns. Some staff are studying for the National Diploma in Infrastructure Asset Management. However, there are gaps around specific asset classes and that the need for technical specialities for aging assets is not well understood.	One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg. by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.

Company Name	Aurora Energy Limited
AMP Planning Period	1 April 2013 – 31 March 2023
Asset Management Standard Applied	
SCHEDUI F 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)	

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventive actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.		Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	are set out and include consideration of cost risk, performance and condition for assets managed across	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
115	Continual	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.