

# Plant and Equipment Standard

AGL-HSE-STD-007.6

The scope of this standard applies to all AGL employees and contractors required to participate in the purchasing, operation, inspection, maintenance and decommissioning activities involving plant and equipment on AGL controlled sites or operations in relation to health, safety and environment.

The reference numbers given to minimum controls provide a direct linkage between this standard and the Risk and Control Matrix. The Plant and Equipment Methodology AGL-HSE-SDM-007.6 provides further explanation of how to achieve the minimum controls.

The underlined minimum controls below have been identified as being critical controls.

RCM Ref	Minimum Controls
<b>Plant and Equipment Registers</b>	
7.6.1.1	Plant and Equipment Register/s must be kept for items of plant requiring regular inspection and maintenance.
<b>Purchasing or Hiring Plant Equipment</b>	
7.6.1.2	Prior to purchasing or hiring plant and equipment the hazards, risks and mitigating controls associated with installation, commissioning, operation, inspection, maintenance, repair, transport, storage and dismantling must be determined and documented.
7.6.1.3	Procedures for plant and equipment must align with any available design specification for specified operation, inspection and maintenance requirements. Any deviation from design specifications for specified operation must be carried out in accordance with the AGL HSE Management of Change Methodology.
7.6.1.4	AGL must obtain a report detailing the condition of the plant, identified faults and service history from the supplier when purchasing second hand plant or equipment. Second hand plant must not be operated until faults compromising serviceability are rectified.
<b>Identify and Evaluating Hazards</b>	
7.6.1.5	For all activities involving use of plant and equipment a risk assessment must be completed: <ul style="list-style-type: none"> <li>• Before the plant and equipment is operated for the first time;</li> <li>• Before any alterations to the plant and equipment;</li> <li>• If there is a change in the way the plant and equipment is used or a system of work associated with the plant (e.g. change in the location of the plant and equipment);</li> <li>• Before the plant and equipment is used for any other purpose than for which it was designed;</li> <li>• With consideration to appropriate Australian Standards, design specifications and the Original Equipment Manufacturer's Guidelines; and</li> <li>• If new or additional information about hazards relating to the plant and equipment or its associated systems of work becomes available.</li> </ul>

RCM Ref	Minimum Controls
<b>Specific Plant and Equipment Controls</b>	
7.6.1.6	Warning, alarming, guarding, safety devices and environmental controls must be fitted to plant and equipment as determined by a risk assessment and as required by (as per minimum control 7.6.1.5).
<b>Maintenance of Plant and Equipment</b>	
7.6.1.7	Maintenance and inspection processes must be implemented for all plant and equipment as determined by a risk assessment and with consideration to manufacturers recommendations.
7.6.1.8	Prescribed maintenance and service work on the plant and equipment must only be undertaken by a person holding a relevant qualification, licence or competency for the task.
7.6.1.9	A planned plant and equipment maintenance programme must be established, documented, retained and include the following: <ul style="list-style-type: none"> <li>• The specific plant and equipment to be maintained;</li> <li>• Type of maintenance;</li> <li>• Schedule of maintenance;</li> <li>• Records of completed maintenance;</li> <li>• Persons responsible for carrying out the maintenance; and</li> <li>• Actions to address hazards associated with plant and equipment.</li> </ul>
<b>Inspection of Plant and Equipment</b>	
7.6.1.10	<u>Plant and equipment must have pre-start checks carried out as determined by a risk assessment (as per minimum control 7.6.1.5).</u>
7.6.1.11	If an inspection identifies a fault which may compromise the safety of an item of plant or equipment, operation of the plant or equipment must not commence until the fault has been rectified. A process must be established to remove faulty equipment from service.
<b>Operation of Plant and Equipment</b>	
7.6.1.12	<u>Where identified by a risk assessment, documented procedures for items of plant and equipment must be developed and implemented which detail:</u> <ul style="list-style-type: none"> <li>• <u>Start-up and shutdown of the plant and equipment;</u></li> <li>• <u>Normal operation of the plant and equipment;</u></li> <li>• <u>Foreseeable abnormal operation;</u></li> <li>• <u>Control system operation, fault diagnosis and maintenance;</u></li> <li>• <u>Risks and the risks associated with the plant and equipment; and</u></li> <li>• <u>Emergency requirements.</u></li> </ul>
7.6.1.13	Plant or equipment that is impaired or damaged must be withdrawn from use until the damaged plant is corrected and the risk mitigated to an acceptable level.
7.6.1.14	Plant that is not in use should be stored so that it does not create a risk to workers or other people in the workplace.

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7.6.1.15	If plant is dismantled, or decommissioned or otherwise sold or disposed of relevant information provided by the designer and manufacturer must be provided to the person dismantling or taking control of the plant.
<b>Registration of Plant</b>	
7.6.1.16	Plant and equipment must satisfy the registration requirements of all relevant authorities.
<b>Training and Competency Requirements</b>	
<u>7.6.1.17</u>	<u>All work activities involving the use of plant and equipment are to be undertaken by a person with the relevant level of training or competency for that item of plant or equipment. Persons must also hold a current license for that item of plant or equipment where required by legislation.</u>

Version	Reviewed by	Approved by	Date approved	Next Review
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