

## 8.2.2 Airport environs overlay code

### 8.2.2.1 Application

This code applies to assessing development within the Airport environs overlay as shown on the Airport environs overlay maps contained in Schedule 2.

When using this code, reference should be made to Part 5.

Note – Appendix 5 of the State Planning Policy - State Planning Policy Code: Strategic Airports and Aviation Facilities provides further guidance on the referral of development proposal affected by the Airport environs overlay to the airport manager for assessment.

### 8.2.2.2 Purpose

- (1) The purpose of the Airport environs code is to protect the existing and future safety, efficiency and operational integrity of Cairns Airport and associated aviation facilities.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) conflicts between the Cairns Airport and surrounding land uses are avoided;
  - (b) development does not create incompatible intrusions, or compromise aircraft safety, in operational airspace;
  - (c) development does not adversely affect the functioning of aviation facilities;
  - (d) development avoids increasing risk to public safety in public safety areas;
  - (e) development is compatible with forecast levels of aircraft noise.

### 8.2.2.3 Criteria for assessment

Part A – Criteria for self-assessable and assessable development

**Table 8.2.2.3.a – Airport environs overlay code – self-assessable and assessable development**

Performance outcomes	Acceptable outcomes
<b>For self-assessable and assessable development</b>	
<b>Protection of operational air space</b>	
<b>PO1</b> Development does not create a permanent or temporary physical or transient obstruction in the operational airspace of Cairns Airport.	<b>AO1.1</b> Buildings and structures (including construction structures and equipment) do not encroach into the: <ol style="list-style-type: none"> <li>(a) obstacle limitation surface as identified on the Airport environs overlay maps contained in Schedule 2; or</li> <li>(b) PANS-OPS for the Cairns Airport identified on the Airport environs overlay maps contained in Schedule 2.</li> </ol>
	<b>AO1.2</b> Landscaping does not include vegetation that at maturity will encroach into the airport’s operational airspace.
	<b>AO1.3</b> Transient activities associated with development such as parachuting, hot air ballooning and hang-gliding will not occur within the airport’s operational airspace.

Performance outcomes	Acceptable outcomes
<b>Lighting</b>	
<p><b>PO2</b> Development does not impact on the operational aspects of the Cairns Airport with regard to light emission and reflective surfaces.</p>	<p><b>AO2.1</b> Development within the lighting buffer zone as identified on the Airport environs light intensity overlay maps contained in Schedule 2, does not emit light that will exceed the maximum light intensity specified for the area.</p> <p>Note – Maximum light intensity of Light Sources measured at 3 degrees above the horizontal.</p> <p><b>AO2.2</b> Development within the lighting buffer zone identified on the Airport environs light intensity overlay maps contained in Schedule 2 does not include any of the following types of outdoor lighting:</p> <ul style="list-style-type: none"> <li>(a) straight parallel lines of lighting 500 m to 1000 m long;</li> <li>(b) flare plume;</li> <li>(c) upward shining lights;</li> <li>(d) flashing lights;</li> <li>(e) laser lights;</li> <li>(f) sodium light;</li> <li>(g) reflective surfaces.</li> </ul>
<b>Airport public safety area</b>	
<p><b>PO3</b> Development in the public safety areas does not increase the risk to life or property.</p>	<p><b>AO3.1</b> Development in the public safety areas shown on the Airport environs overlay maps contained in Schedule 2; does not involve:</p> <ul style="list-style-type: none"> <li>(a) an increase in the number of people living, working or congregating in the public safety area; or</li> <li>(b) the manufacture, use or storage of flammable, explosive, hazardous or noxious materials.</li> </ul>
<b>Acoustic treatment for noise exposure</b>	
<p><b>PO4</b> Development involving a sensitive land use is appropriately located and designed to prevent adverse impacts from aircraft noise.</p>	<p><b>AO4.1</b> Development within the 20–&gt;35 ANEF contour radius shown on the Airport environs overlay maps contained in Schedule 2 is consistent with Table 8.2.2.3.b.</p> <p><b>AO4.2</b> Development within the 20–&gt;35 ANEF contour radius shown on the Airport environs overlay maps contained in Schedule 2 is designed and constructed to attenuate aircraft noise by achieving the indoor design sound levels specified in Table 8.2.2.3.c.</p>

Performance outcomes	Acceptable outcomes
<b>Emissions</b>	
<p><b>PO5</b> Emissions do not affect air turbulence, visibility or engine operation in the operational airspace of Cairns Airport.</p>	<p><b>AO5.1</b> Development does not emit smoke, dust, ash or steam into the Cairns Airport's operational airspace.</p>
	<p><b>AO5.2</b> Development does not emit a gaseous plume into the Cairns Airport's operational airspace at a velocity exceeding 4.3 m per second.</p>
<b>Function of aviation facilities</b>	
<p><b>PO6</b> Development located within the building restricted area for an aviation facility is designed and constructed to mitigate adverse impacts on the function of the facility.</p> <p>Note – SPP Guideline – Strategic airports and aviation facilities provides guidance on meeting the outcomes.</p>	<p><b>AO6.1</b> Development located within the building restricted area for an aviation facility does not create:</p> <ul style="list-style-type: none"> <li>(a) permanent or temporary physical obstructions in the line of sight between antennas;</li> <li>(b) an electrical or electromagnetic field that will interfere with signals transmitted by the facility;</li> <li>(c) reflective surfaces that could deflect or interfere with signals transmitted by the facility.</li> </ul>
	<p><b>AO6.2</b> Development located within the building restricted area for an aviation facility is designed and constructed to mitigate adverse impacts on the function of the facility.</p>
<b>For assessable development</b>	
<b>Wildlife hazards</b>	
<p><b>PO7</b> Development does not cause wildlife to create a safety hazard in the operational airspace of Cairns Airport.</p>	<p><b>AO7.1</b> Development located within the 3km Wildlife hazard Zone as shown on the Airport environs overlay maps contained in Schedule 2 does not involve uses listed in column 1 of Table 8.2.2.3.d.</p>
	<p><b>AO7.2</b> Development located within the 3km Wildlife hazard Zone shown on the Airport environs overlay maps contained in Schedule 2 involving a use listed in column 2 of Table 8.2.2.3.d, includes measures to reduce the potential to attract birds and bats.</p>
	<p><b>AO7.3</b> Development located within the 3km and 8km Wildlife hazard Zone shown on the Airport environs overlay maps contained in Schedule 2 involving a use listed in column 1 or column 2 of Table 8.2.2.3.d includes measures to reduce the potential to attract birds and bats.</p>

Performance outcomes	Acceptable outcomes
	<p><b>AO7.4</b> Development located within the 8km and 13km Wildlife hazard Zone shown on the Airport environs overlay maps contained in Schedule 2 involving a use listed in column 1 or column 2 of Table 8.2.2.3.d does not increase the potential to attract birds and bats.</p>

**Table 8.2.2.3.b — Compatible and incompatible land uses within ANEF contours** <sup>1,2</sup>

Land use	Compatible	Compatible subject to conditions	Incompatible
<ul style="list-style-type: none"> <li>• Caretaker's accommodation</li> <li>• Community residence</li> <li>• Dual occupancy</li> <li>• Dwelling house</li> <li>• Dwelling unit</li> <li>• Multiple dwelling</li> <li>• Nature-based tourism</li> <li>• Non-resident workforce accommodation</li> <li>• Relocatable home park</li> <li>• Residential care facility</li> <li>• Retirement facility</li> <li>• Rural workers' accommodation</li> <li>• Tourist park</li> </ul>	Less than 20 ANEF	20 to 25 ANEF	Greater than 25 ANEF
<ul style="list-style-type: none"> <li>• Short-term accommodation</li> <li>• Hotel</li> <li>• Resort complex</li> <li>• Rooming accommodation</li> </ul>	Less than 25 ANEF	25–30 ANEF	Greater than 30 ANEF
<ul style="list-style-type: none"> <li>• Educational establishment</li> <li>• Child care centre</li> </ul>	Less than 20 ANEF	20–25 ANEF	Greater than 25 ANEF
<ul style="list-style-type: none"> <li>• Hospital</li> <li>• Health care services</li> </ul>	Less than 20 ANEF	20–25 ANEF	Greater than 25 ANEF
<ul style="list-style-type: none"> <li>• Community use</li> <li>• Place of worship</li> </ul>	Less than 20 ANEF	20–30 ANEF	Greater than 30 ANEF
<ul style="list-style-type: none"> <li>• Office</li> </ul>	Less than 25 ANEF	25–35 ANEF	Greater than 35 ANEF

<sup>1</sup> Table 8.2.2.3.b excludes consideration of aircraft noise impacts on outdoor spaces specifically. However, the table does reflect the extent/frequency of outdoor space use associated with particular uses.

<sup>2</sup> AS 2021 should be referred to by those seeking information / background on the basis for Table 8.2.2.3.b.

**Table 8.2.2.3.c — Desirable indoor design sound levels for sensitive land uses**

Land use	Location within development	Indoor design sound level dB(A)
<ul style="list-style-type: none"> <li>• Caretaker's accommodation</li> <li>• Community residence</li> <li>• Dual occupancy</li> <li>• Dwelling house</li> <li>• Dwelling unit</li> <li>• Home based business</li> <li>• Multiple dwelling</li> <li>• Nature-based tourism</li> <li>• Non-resident workforce accommodation</li> <li>• Relocatable home park</li> <li>• Residential care facility</li> <li>• Retirement facility</li> <li>• Rooming accommodation</li> <li>• Rural workers' accommodation</li> <li>• Short-term accommodation</li> <li>• Tourist park</li> </ul>	<ul style="list-style-type: none"> <li>• Sleeping areas</li> </ul>	50
	<ul style="list-style-type: none"> <li>• Other habitable areas</li> </ul>	55
<ul style="list-style-type: none"> <li>• Short-term accommodation</li> <li>• Hotel</li> <li>• Resort complex</li> <li>• Rooming accommodation</li> </ul>	<ul style="list-style-type: none"> <li>• Sleeping areas</li> </ul>	55
<ul style="list-style-type: none"> <li>• Educational establishment</li> <li>• Child care centre</li> </ul>	<ul style="list-style-type: none"> <li>• Libraries</li> <li>• Classrooms</li> <li>• Study areas</li> <li>• Sleeping areas</li> </ul>	50
	<ul style="list-style-type: none"> <li>• Teaching areas</li> <li>• Assembly areas</li> </ul>	55
<ul style="list-style-type: none"> <li>• Hospital</li> <li>• Health care services</li> </ul>	<ul style="list-style-type: none"> <li>• Wards</li> <li>• Theatres</li> <li>• Treatment and consulting rooms</li> </ul>	50
	<ul style="list-style-type: none"> <li>• Laboratories</li> </ul>	65
<ul style="list-style-type: none"> <li>• Community use</li> <li>• Place of worship</li> </ul>	<ul style="list-style-type: none"> <li>• All indoor areas</li> </ul>	50
<ul style="list-style-type: none"> <li>• Office</li> </ul>	<ul style="list-style-type: none"> <li>• Private offices</li> <li>• Conference rooms</li> </ul>	55
	<ul style="list-style-type: none"> <li>• Open offices</li> </ul>	65

**Table 8.2.2.3.d — Land uses associated with increases in wildlife strikes and hazards**

Column 1 High Risk	Column 2 Moderate Risk
<ul style="list-style-type: none"> <li>• Aquaculture (fish processing/packing plant);</li> <li>• Conservation estate (e.g. wetland);</li> <li>• Cropping (turf farm, fruit tree farm);</li> <li>• High-impact industry (food processing plant more than 200 tonnes per annum);</li> <li>• Intensive animal industry (piggery);</li> <li>• Low impact industry (food processing plant);</li> <li>• Major sport, recreation and entertainment facility (showground);</li> <li>• Medium-impact industry (food processing plant less than 200 tonnes per annum);</li> <li>• Utility installation (Food / organic waste facility, Putrescible waste facility (e.g. landfill, transfer station).</li> </ul>	<ul style="list-style-type: none"> <li>• Animal husbandry (cattle/dairy farm);</li> <li>• Conservation estate (all other);</li> <li>• Intensive animal industry (poultry farm);</li> <li>• Major sport, recreation and entertainment facility (all other);</li> <li>• Outdoor sport and recreation;</li> <li>• Park;</li> <li>• Utility installation (Sewage/wastewater treatment facility, Non-putrescible waste facility e.g. landfill, transfer station).</li> </ul>