

Appendix 4-3 Noise requirements and compliance CAP 1616a

Noise requirements and compliance with CAP 1616a

Para Ref	Requirement	Future LuToN approach compliant?	Comments
1.13	Average Summer Day Laeq,16hr contours	Yes	
1.14	Night time average summer night Laeq,8hr contours	Yes	
1.15	Use of long term average runway usage	Yes	
1.16	Application of WebTAG	Partial	An adaptation of WebTAG was used during the Sifting process.
1.17	Definition of scenarios to be modelled	Partial	Not directly relevant as the scenarios defined in CAP1616a are specific to airspace design changes.
1.19	Contours to be produced using recognised and validated noise model such as ANCON or AEDT	Yes - AEDT	
1.20	Terrain adjustments must be included in the calculation process	Yes	
1.21	Contours to be plotted from 51 dB Laeq,16hr (daytime) and 45 dB Laeq,8hr (night time) at 3 dB intervals.	Yes	
1.21	Data for each contour to include area (km ²) and population (thousands, rounded to the nearest hundred)	Yes	
1.22	Sometimes useful to include number of households	Yes	Number of dwellings also to be included in outputs.
1.23	Data above should be presented on a cumulative basis	Yes	
1.23	Include count of number of schools, hospitals, and other special buildings within the noise exposure contours	Yes	
1.24	Contours should be provided to CAA in electronic format and paper formats.	No	It is assumed that this is specific to the CAA reviewing the airspace design change proposals. Data can be made available in this format if required.
1.27	Use of 100% mode contour plots for each runway	Yes	To be included in ES
1.28-1.30	N65 (day) and N60 (night) contours to be provided	Yes	To be included in ES
1.31-1.36	Presentation of difference contours	Yes	To be included in ES

Noise requirements and compliance with CAP 1616a

Para Ref	Requirement	Future LuToN approach compliant?	Comments
1.37-1.39	Operational diagrams	No	Not applicable as proposal does not include airspace redesign.
1.40-1.44	Presentation of overflight contours	Yes	Note that two options are given for angles used to define overflight. We propose to adopt the 48.5° angle recommended by the CAA in para 1.41.
1.45	Lmax spot point levels	No	This is an optional element in CAP1616a. We do not propose to present these data, but will be using LMax calculated levels for the assessment of sleep disturbance in the full ES.
1.68-1.77	Guidance on the use of AEDT	Guidance has been noted during AEDT modelling	