

Broadcast Planning Instruction

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| Title: Specification of antenna radiation patterns in the planning and licensing databases | |
| Instruction no: 4 | Version release: 2 |
| | Date of effect: Immediate |

Background

The purpose of this Instruction is to provide guidance on the specification of antenna radiation patterns. Compliance with these rules will ensure that antenna patterns are specified in a consistent manner and are capable of being realised in practice.

Instruction

In defining antenna pattern data in the planning and licensing databases, Planning Staff should ensure:

- (a) the antenna pattern is specified from 0° True North;
- (b) the antenna pattern is fully specified in the horizontal plane (i.e. 0° through to 360°); and
- (c) that subject to specific coverage or interference constraints, any step variations in the radiation pattern occur at either 5° or 10° radials.

Planning Staff should also ensure that specified antenna patterns are capable of being realised. This can be verified either by reference to antenna data sheets or through direct consultation with antenna manufacturers.

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| Authorised: [SIGNED] Manager Broadcast Spectrum Planning Section | Date: 1/06/2021 |
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