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**INTRODUCTION OF LONDON ARRAY AND THANET OFFSHORE WINDFARM TRANSPONDER MANDATORY ZONES.**

**1 Introduction**

1.1 As the result of an overriding safety concern related to wind turbine-generated primary surveillance radar clutter and Kent International Airport (Manston) Air Traffic Control's provision of radar services, the establishment of two Transponder Mandatory Zones (TMZ) has been approved by the Civil Aviation Authority (CAA) and will take effect on **17 November 2011**. The 2 TMZs will encompass the London Array and Thanet Offshore Windfarms.

**2 Transponder Mandatory Zones**

2.1 A TMZ is defined as a volume of airspace within which aircraft are required to have and operate secondary surveillance radar equipment. TMZs are notified within the UK AIP for the purpose of Air Navigation Order 2009 Schedule 5 in relationship to Articles 28(7) and 39(2). This equipment must include a pressure altitude reporting transponder capable of operating in Mode A and Mode C and has the capability and functionality prescribed for Mode S Elementary Surveillance. The pilot of an aircraft that wishes to operate in a TMZ without such serviceable transponder equipment may be granted access to the TMZ subject to specific ATC approval.

**3 London Array and Thanet Offshore Windfarm TMZs**

3.1 The TMZs will be identified as the 'London Array TMZ' and the 'Thanet TMZ'. Each will extend from the surface to the base of controlled airspace, as detailed in the table below and depicted on the chart at Annex A. Note that as the London Array TMZ is located beneath a confluence of a segmented portion of the Clacton CTA the upper limit will vary between FL 55, FL 65 and FL 85 and the TMZ is, for notification purposes, sub-divided into 3 areas:

Designation and Lateral Limits	Vertical Limits	Airspace Classification
<b>London Array TMZ (Area A)</b>  513906N 0012459E, 514036N 0012507E, 514305N 0012824E, 514304N 0013112E, 514050N 0013459E, 513722N 0013646E, 513341N 0013627E, 513306N 0013414E, 513318N 0012929E, 513906N 0012459E	FL65 <hr/> SFC	G
<b>London Array TMZ (Area B)</b>  513906N 0012459E, 513318N 0012929E, 513325N 0012642E, 513516N 0012327E, 513814N 0012201E, 513859N 0012259E, 513906N 0012459E	FL85 <hr/> SFC	G
<b>London Array TMZ (Area C)</b>  513906N 0012459E, 513859N 0012259E, 514036N 0012507E, 513906N 0012459E	FL55 <hr/> SFC	G
<b>Thanet TMZ</b>  512835N 0013900E, 512546N 0014306E, 512335N 0014246E, 512246N 0014130E, 512257N 0013710E, 512558N 0013240E, 512706N 0013243E, 512753N 0013331E, 512850N 0013515E, 512835N 0013900E	FL105 <hr/> SFC	G

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#### **4 TMZ Access**

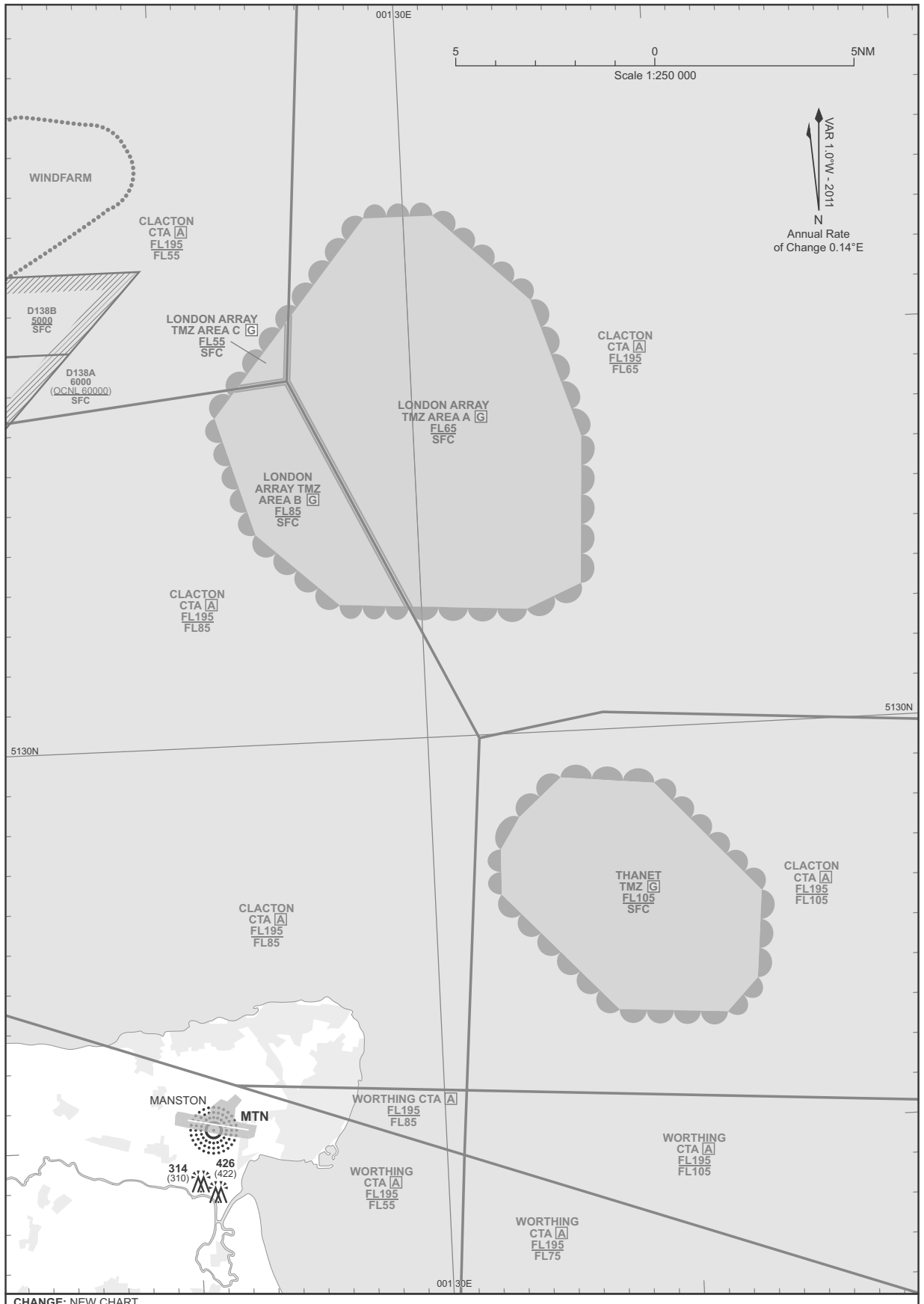
4.1 Providing aircraft have and operate secondary surveillance radar equipment in line with paragraph 2.1, access to the London Array and Thanet TMZs is not subject to ATC approval. However, it is strongly recommended that such traffic seek an air traffic service from Manston ATC.

4.2 The pilot of an aircraft that wishes to operate in either or both of the London Array and Thanet TMZs without serviceable transponder equipment as defined in paragraph 2.1 may be granted access to the TMZ subject to specific ATC approval. This approval may be obtained from Manston ATC on frequency 132.450 MHz during its hours of operation (Winter 0900 – 1800, Summer 1 hour earlier).

# ANNEX A

## LONDON ARRAY AND THANET TRANSPONDER MANDATORY ZONES

MANSTON



CHANGE: NEW CHART.  
AERO INFO DATE 21 JUL 11

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