



SP-1 Airspace Change Manager Room 113 AT Building QinetiQ Malvern technology Centre St Andrews Road Malvern Worcestershire WR14 3PS

18 August 2021

ACP-2021-37 Temporary Danger Area Spaceport-1 Scolpaig North Uist

Introduction

As Sponsor for the above titled temporary airspace change, I contacted you in May this year requesting feedback on the change proposal for a Temporary Danger Area (TDA) over the Spaceport 1 (SP-1) proposed launch site at Scolpaig, North Uist. A Power Point Presentation (PPP) and accompanying email description were delivered outlining the TDA proposal and airspace management processes, in particular the main purpose of the TDA; to enable connectivity to the existing D701 Danger Areas. Although the particulars pertaining to connectivity, airspace management processes and use of the D701 areas has not changed, it has been necessary to modify the TDA design over the SP-1 launch site. The original TDA is depicted at Figure 1, with the new requirement depicted at Figure 2.



Figure 1: Original TDA Design 25 May 2021

Figure 2: Revised TDA Design 18 Aug 2021

Details of Change

The change to the original design was needed following a comprehensive re-evaluation of the safety analysis, this resulted in an extension of the TDA to the East. The extension now enables a number of different types of sub-orbital sounding rockets to be launched safely from the Scolpaig site into D701. It is recognised that this extension of the Eastern boundary of the TDA may now have an



increased impact on Benbecula airport operations and as such it is intended to utilise the same procedures for accessing the TDA as those currently in place for access to D701Y when active.

The coordinates for the revised TDA are as follows:

573305N 0073017W -574128N 0073703W -574923N 0071500W -573727N 0071811W and back to 573305N 0073017W.

All coordinates are coincident with existing D701 coordinates using pre-existing Aeronautical Data Quality (ADQ) approved points. The TDA extends from surface level to unlimited (SFC-UNL).

It should be noted that the sounding rockets are likely to fall into one of three 'safety range' categories, namely 80km, 114km and 250km. The associated D701 areas that could potentially be activated in conjunction with these launch categories are depicted below in Figure 3 to Figure 5:



Figure 3: Sounding Rocket 80km Safety Range – Diagram Depicting Two Potential Options for D701 Activation





Figure 4: Sounding Rocket 114km Safety Range – Diagram Depicting Potential D701 Activation



Figure 5: Sounding Rocket 250km Safety Range – Diagram Depicting Two Potential Options for D701 Activation

Purpose

The purpose of this letter is to inform you of the TDA design change and request that you confirm your original response still remains extant or, if you wish to add any new comments as a result of this necessary change. It should also be noted that the TDA is predicted to be required from November this year, precise timing is still uncertain at this time, and is expected to be utilised for up to four launches during the 90 day period. The requirement for further launches and possible repeat of the TDA in 2022 remains extant and will be subject to CAA approval.



You are respectfully requested to respond to this letter by 1200 Wednesday 1st September 2021. Please provide feedback by email to the airspace change manager at: <u>SP1ACP@QinetiQ.com</u>

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