



Design Principles Questionnaire

Aviation Stakeholders

Document Details

Reference	Description
Document Title	SSC Design Principles Questionnaire
Document Reference	SSC-CAA1012DPQ
Issue	Issue 1
Date	10 December 2019

Issue	Amendment	Date
Issue 1		10 December 2019

Table of Contents

- 1. Introduction 4**
 - 1.1 Points for your Consideration..... 4
 - 1.1.1 Periodicity of Operations..... 4
 - 1.1.2 Time of Day..... 4
 - 1.2 Action Required 5
 - 1.3 How to Respond..... 5
 - 1.4 Focus Groups 5
 - 1.5 Timescale for Responses..... 5
- 2. Questionnaire..... 6**
 - 2.1 Your responses 6
 - 2.2 Questions for Aviation Stakeholders..... 6

1. Introduction

Shetland Space Centre (SSC) is developing a vertical launch spaceport on the island of Unst, Shetland. The spaceport will launch small rockets into space from Lamba Ness on Unst in a Northerly direction over the sea. To ensure that the launching rockets are protected from other air users SSC (the change sponsor) are undertaking an Airspace Change with the Civil Aviation Authority (CAA). The change process is described in CAP 1616, which can be found at this link:

<https://publicapps.caa.co.uk/docs/33/CAP1616E2noninteractive.pdf>

One of the key principles of the change process is that it should be as transparent as possible, therefore the CAA hosts an airspace change portal where individual airspace changes can be followed. The following link will take you to the portal:

<https://airspacechange.caa.co.uk/OrganizationSearch>

Another important principle is that “In contemplating any airspace change proposal, the change sponsor must consider the impacts on others and the implications those impacts may have, and engage with them appropriately.” Therefore, consultation and engagement take place throughout the change process.

This questionnaire forms part of this first stage of engagement and is designed to help SSC identify affected parties (Stakeholders). It is also important to note that at this stage SSC do not have a proposed solution, again this engagement is meant to inform SSC as to what is important to the affected parties. The feedback that SSC will get from this engagement will help SSC begin to craft the design principles of the airspace change and will influence the criteria against which any option will be evaluated.

The project is also subject to a full planning application that is being run separately to the application for airspace to support the operation. This questionnaire is not linked to the Planning Application.

It is important that the views of stakeholders are considered at an early stage in the process, and therefore, your responses to the attached questions are important to understand what our key areas of consideration should be for a successful airspace change process.

1.1 Points for your Consideration

This section provides further information that may help when considering a response to the questions posed in Section 2.

1.1.1 Periodicity of Operations

Any restrictions on the airspace environment are not expected to be in place permanently. However, there will be restrictions placed in advance of proposed launches, and for a period after to ensure that the airspace has been vacated and that normal flying operations can continue safely. There may be a certain number of restrictions that can be tolerated with minimum impact. The project team would like to understand what frequency of operation would create a lower impact.

1.1.2 Time of Day

When responding to the questions, you may also wish to consider whether your comments are applicable by day or by night, or whether you feel that priorities should change over the 24-hr period, or day to day.

1.2 Action Required

We have developed the questions below in Section 2 and would encourage you to insert your responses in the enclosed table and return this to us as described in 1.3 below.

Please do not feel constrained in your response to any question. If you wish to highlight any other relevant local constraints or issues, then SSC would welcome any feedback you choose to contribute that will support the development of the Design Principles. Your responses may be operational or environmental in nature but are those you feel are most important to you, or to your represented community.

1.3 How to Respond

There are several ways you can respond to the survey. The easiest and quickest way to respond is to access the questions via the link below.

<https://airspace-change.shetlandspacecentre.com/>

There is also a link to the online form on the website www.shetlandspacecentre.com

Alternatively, you can choose to fill your answers directly to each question in the relevant field in Section 2 below. Then save the file that includes your responses and attach to an email to the following address:

airspace-change@shetlandspacecentre.com

In addition to this word document, we will accept scanned, hand-written responses or email responses provided they are legible and clearly identify the question to which your response relates.

We will also accept legible postal responses to the following address within the timescales specified in 1.5 below:

Airspace Change
Shetland Space Centre
Moray Park
Grantown on Spey
Moray
PH26 3JF

It is important that individual email responses clearly show your name and contact details; this will allow us to cross refer to the emails we send out.

1.4 Focus Groups

SSC intends to hold Focus Groups and meetings with key stakeholders during January 2020. Therefore, we ask for the questionnaire responses to be returned to us by 10 January 2020, ahead of these events. During the Focus Groups discussions, additional views will be recorded and collated. The responses from the Focus Groups and the questionnaires will be analysed and will form the basis of the draft Design Principles document, for review and subsequent submission to the CAA.

Please note again that these Focus Groups are for views on the Airspace Change Process and are not linked to separate consultation meetings on the Planning Application.

1.5 Timescale for Responses

Please ensure your response is returned to us no later than **10 January 2020**.

2. Questionnaire

2.1 Your responses

The questions below are designed to help us understand the constraints that should be considered during the CAA CAP 1616 Design Principles step of the Define Stage (1). Please insert your responses below each of the following questions; the size of the response box will expand as you type your response. Use as much space as you need, or alternatively attach additional sheets or documents making it clear which questions you are responding to. Save this document together with any other relevant documents and return them as described in 1.3 above. If any of the questions are not applicable or relevant, please say so against the appropriate question.

Please note that this questionnaire relates only to the CAP 1616 Airspace Change Process which is an entirely separate process to Shetland Islands Council Statutory Planning Application submission. Both processes include elements of stakeholder engagement and formal consultation so inevitably there will be some overlap.

2.2 Questions for Aviation Stakeholders

Representative Organisation:

For example: ANSP, Regional Airport, General Aviation Operator, Glider Pilot, Private Individual etc.

Q1 - Please list any constraints that might limit the lateral and/or vertical extent of any airspace solution that you feel SSC should consider when designing an airspace solution to protect the launches. Please list your reasons

Your response:

Q2 - Please advise us of any coordination requirements between SSC and other Air Navigation Service Providers (ANSPs) that should be considered during the development of new airspace restrictions established by SSC

Your response:

Q3 - Are you aware of anything in the CAA Airspace Modernisation Strategy that presents a risk or opportunity to SSC in development of the airspace solution to protect the Space Centre launches? Please provide details

Your response:

Q4 - Do you envisage that a Letter of Agreement (LoA) or Memorandum of Understanding (MoU) or other agreement with SSC will be required? If so, please provide details of what you would expect to be required as part of this agreement

Your response:

Q5 - Please let us know if there are any day-time or night-time specific constraints that you consider SSC could take into account when considering the airspace solution required to protect the vertical space launches. Please provide details and reasons.

Your response:

Q6 - Please tell us if there are there any other operational constraints that SSC will need to consider when planning its new airspace solution

Your response:

Q7 - Please inform us of who you consider to be the other key local aviation stakeholders that you believe SSC should engage with during the process of designing an airspace solution to protect the vertical space launches. Please provide contact details and reasons

Your response:

Q8 Please provide details of any constraints imposed by restricted airspace operations in the area encompassed by SSC's Space Centre potential operating area (e.g. military operations, danger areas, restricted areas, route crossings, transit corridors, training areas etc.)

Your response:

Q9 - Please provide details of any issues or constraints due to local helicopter operations that you believe may have an impact within the proposed area of the Space Centre Unst operating area

Your response:

Q10 - Please advise us of any other issues or constraints you feel SSC could consider when designing its new airspace solution to protect the vertical space launches. Please provide details

Your response:

Q11 - What impact or constraints will Space Centre Unst airspace solution to protect vertical space launches have on local GA/VFR operations. Please provide details.

Your response:

Q12 - Please provide details of any constraints that may be occasioned by local gliding activities on, or adjacent to the Space Centre Unst launch site.

Your response:

Q13 - Please highlight your awareness of any particularly sensitive issues with noise associated with the vertical space launches over the night-time period.

Your response:

Q14 - Please state any principles you believe that SSC could adopt to mitigate (in full or in part) the direct or indirect impact of rocket launches on aviation emissions or pollution.

For example, due to the dispersal of other air traffic during launch periods.

Your response:

Q15 - SSC is currently engaging with local and national organisations and a full public consultation is planned in due course. However, please let us know of any local or national organisations that you believe SSC should include in its formal consultation.

Your response: