



ACP-2017-079 SHETLAND SPACECENTRE LIMITED (SAXAVORD SPACEPORT) AIRSPACE CHANGE PROPOSAL CAP1616 STAGE 3 ("CONSULT") STAKEHOLDER CONSULTATION REPORT





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1. Introduction.

- 1.1. Shetland Space Centre Limited (trading and hereinafter referred to as "SaxaVord Spaceport" or "SaxaVord") seeks to conduct vertical launch operations for orbital and sub-orbital activities from SaxaVord Spaceport on Lamba Ness, Unst. A suitable airspace reservation of defined dimensions is required to ensure the safety of other airspace users from SaxaVord launch activities and to ensure the safety of SaxaVord launch activities from other airspace users. The proposed airspace reservation would be activated for the minimum specified periods necessary to support nominated launch operations and would extend from surface (SFC) to unlimited (UNLTD).
- 1.2. As part of the CAP1616 Stage 1 process, SaxaVord considered and engaged relevant stakeholders to discuss the outline of the proposal and establish and share the proposed airspace design principles (DPs).
- 1.3. At Stage 2A of the CAP1616 process SaxaVord developed the design options for the airspace change and tested them with Stakeholders. Subsequently, at Stage 2B, SaxaVord carried out an options appraisal for the designs against requirements set by the CAA in an iterative approach. SaxaVord successfully completed the Stage 2 Gateway on 7 December 2022.
- 1.4. At Stage 3 of the ACP process, SaxaVord consulted aviation and non-aviation stakeholders to identify, discuss and, where necessary, mitigate any subsequent impact(s) that activation of the proposed airspace design might have on stakeholders and their respective activities and operations.

2. Purpose.

- 2.1. The purpose of this report is to demonstrate that SaxaVord has carried out a fair, transparent and comprehensive review and categorisation of the Stage 3 stakeholder consultation responses received.
- 2.2. The overarching principle(s) of SaxaVord's consultation activity with stakeholders sought to address positive and potentially negative impacts on stakeholders (and their respective operations and activities) by providing sufficient source materials and commentary to enable informed objective responses to be received that would inform SaxaVord's airspace design.
- 2.3. SaxaVord's approach to its Stage 3 consultation activities was set out in its <u>Stage Consultation</u> Strategy document.

3. CAP1616 Stage 3 "Consult" Objectives.

- 3.1. The overriding aim is to ensure that anyone (or organisation) who might be impacted by the proposed airspace change can see and understand what is being proposed and respond in the knowledge that the CAA is holding the change sponsor to account against the requirement to facilitate a meaningful consultation.
- 3.2. The objective of the ACP-2017-079's consultation process was to consult the application's stakeholders (aviation and non-aviation) on the potential impact(s) of the proposed airspace design on their respective operations and activities.
- 3.3. At Step 3C, SaxaVord implemented its consultation strategy and launched the consultation period on 18 Apr 23, which lasted for 8 weeks. The consultation period concluded on Mon 12 Jun 23.
- 3.4. At Step 3D, SaxaVord consultation responses are collated, reviewed and categorised.
- 4. Audience the Stakeholders.
- 4.1. The list of the Application's stakeholders is provided at Appendix 1. For each stakeholder, a primary point of contact (POC) was established and, where possible, this included a name and email





address, as a minimum. SaxaVord acknowledges that that "seldom-heard groups", by their very nature, are difficult to identify and reach - see Section 5, below.

5. Consultation Approach.

- 5.1. Consultation Strategy and Full Options Appraisal. At Stage 3, SaxaVord's aim was to ensure that the Application's stakeholders could participate fully in the consultation activity. This approach was articulated clearly in SaxaVord's Stage 3 Consultation Strategy document. SaxaVord's Full Options Appraisal set out the evolution of the proposed design and the rationale for the proposed design to be consulted upon.
- 5.2. Stakeholder Consultation Materials. SaxaVord produced a common set of consultation materials for all stakeholders and made the materials available on the ACP-2017-079 portal and through the Citizen Space platform. In the consultation materials, stakeholders were reminded that ACP-2017-079's Stage 3 consultation process pertained solely to the proposed airspace design.
- 5.3. Citizen Space Platform and Online Survey Questionnaire. The main consultation route was through the Citizen Space platform and the corresponding survey questionnaire therein. Email, written, website and social media correspondence directed stakeholders to the questionnaire and related materials on Citizen Space. Copies of SaxaVord's introductory and reminder emails, website news update and information flyer for all households on the island of Unst are provided at Appendices 2, 3 and 4, respectively.
- 5.4. *Print Versions*. The availability of print versions of all of the consultation materials, supporting documentation and questionnaire was highlighted on the SaxaVord website, social media, local radio and print media and leaflets distributed to all Unst households.
- 5.5. Virtual Meetings and ad hoc Communications. Stakeholders were offered the ability to request and conduct either virtual meetings or ad hoc communications with SaxaVord at Stage 3; no such requests were received.
- 5.6. *Consultation Responses*. Consultation responses (i.e. survey questionnaires) were requested through the Citizen Space platform.
 - a. *Online Questionnaire*. Responses received through the Citizen Space platform were managed by the platform and moderated by CAA, published and analysed with the other stakeholders' responses.
 - b. Offline (i.e. Printed) Questionnaire. Where survey questionnaires were received through means other than the Citizen Space platform, SaxaVord added the responses to the platform so that they could be moderated by the CAA, published and analysed with the other stakeholders' responses.

SaxaVord's management, categorisation and analyses of stakeholder responses is discussed further at Section 6, below.

5.7. *Timescales*. SaxaVord commenced stakeholder consultation on Tue 18 Apr 23 and concluded on Mon 12 Jun 23.

Consultation Responses.

- 6.1. SaxaVord received 16 survey questionnaire responses through the Citizen Space platform, one handwritten survey response, which was uploaded to Citizen Space. One survey questionnaire was supplemented by an email from the respondent and 3 email responses were received from other stakeholder organisations.
- 6.2. The 17 Citizen Space platform questionnaire responses are provided at Appendix 5 and the 4 email responses are at Appendix 6.





- 6.3. SaxaVord collated, reviewed and categorised all responses.
- 7. Categorisation of Consultation Responses.
- 7.1. CAP1616 requires ACP sponsors to categorise consultation response data formally into those that might impact the proposed airspace design and, therefore, the final ACP submission and those that do not. At this point SaxaVord has sub-categorised responses that could impact on the ACP into those that would lead to changes to the overall submission and those that would not.
- 7.2. SaxaVord reviewed and analysed all the data received from the ACP-2017-079 Stage 3 consultation. Responses have been categorised using the following definitions:
 - a. Response Might Impact Proposed Design and Final ACP Submission. Any response that had the potential to impact the final submission was placed into this category. Each response is then further categorised into the following:
 - (1) <u>Impacted</u>. A proposal from a stakeholder that would impact the management of the airspace or alter the size, shape or construct of the final design that had not already been considered.
 - (2) <u>Not Impacted</u>. A proposal from a stakeholder that would impact the management of the airspace or alter the size, shape or construct of the final design but had already been considered, discounted or implemented at an earlier stage of this ACP.
 - b. Response Does Not Impact Proposed Design and Final ACP Submission. This category applied to all responses that did not impact on the proposed design and/or the final ACP submission.
- 7.3. In undertaking the categorisation of responses, SaxaVord sought to address any identified issues, either by mitigating the issue to the greatest extent possible (with an appropriate rationale), or by rejecting the issue on justifiable grounds.
- 7.4. SaxaVord were cognisant that responses that did not impact the final proposal might still contain valuable information, e.g. notification and communications requirements. Consequently, SaxaVord sought to capture and identify key themes from the consultation feedback even if they were contained in responses which did not impact the final proposal.
- 8. Stage 3 Stakeholder Survey Questionnaire Responses.
- 8.1. Stakeholders were reminded in the stakeholder materials that ACP-2017-079's Stage 3 consultation process pertained solely to the proposed airspace design. This overarching tenet was applied during the categorisation of stakeholder responses, especially those responses that centred around spaceport planning and/or local environmental concerns. SaxaVord's analysis was based on whether the response was directed solely to design of the proposed airspace and responses to Q8 and Q15.
- 8.2. Question 8. "To what extent do you agree that the proposed permanent airspace design provides a sufficient airspace volume to protect launch operations from other airspace users and vice versa?"
 - a. "Strongly Agree", "Agree" and "Neutral". Questionnaires that returned "Strongly Agree", "Agree" and "Neutral" responses to Question 8 were deemed to acknowledge that the airspace design did not need amendment. Comments associated with these responses were noted and continue to be addressed through ongoing discussions and the development of LOAs/MOUs between SaxaVord and the relevant parties.
 - b. "Disagree" or "Strongly Disagree". Questionnaires that offered either "Disagree" or "Strongly Disagree" to Question 8 were analysed more forensically to determine what the key drivers were

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for such a response. Similarly, SaxaVord"s analyses of these responses sought to understand and, where possible, consider potential aviation-related mitigations.

- 8.3. Question 15. "In general terms, to what extent do you/does your organisation support the proposed permanent airspace design?"
 - a. Q15 "Strongly Support", "Support" and "Neutral". Questionnaires that returned "Strongly Support", "Support" and "Neutral" to Question 15 were deemed to acknowledge their support (or lack of objection) to the proposal.
 - b. Q15 "Object" or "Strongly Object". Questionnaires that returned "Strongly Object" or "Object" to Question 15 were analysed more forensically to determine what the key drivers were for such a response. Similarly, SaxaVord's analyses of these responses sought to understand and, where possible, consider potential aviation-related mitigations.
- 8.4. Response Data. The categorised survey questionnaire responses, comments and SaxaVord's justifications/comments are provided at Appendix 5. Three email responses and supplementary email from NATS were also received and are provided at Appendix 6.





8.5. Summary of Stage 3 Stakeholder Survey Questionnaire Responses Categorisation and Analyses. Table 1, below, offers a summary of the categorisation and analyses of the Stage 3 stakeholder survey questionnaire responses.

ID No	Q8 Response	Q15 Response		Impact Proposed CP Submission	Response Does Not Impact ACP	Sponsor's Remarks/Comments	
			Impact	No Impact	·		
ID1	Agree	Support			✓	Categorisation. Response does not impact the ACP.	
						Respondent is supportive. Proffered notification and operation suggestions noted and will inform ongoing engagements with between SaxaVord and the relevant parties.	
ID2	Neutral	Support			✓	Categorisation. Response does not impact the ACP.	
						Respondent is supportive. Proffered notification and operation suggestions noted and will inform ongoing engagements with between SaxaVord and the relevant parties.	
ID3	Agree	Strongly Support			✓	Categorisation. Response does not impact the ACP.	
						Respondent is supportive. Proffered notification suggestion noted and is the subject of ongoing engagement between SaxaVord and the relevant parties.	
ID4	Neutral	Neutral		✓		Categorisation. Response does not impact the ACP.	
						Respondent is "Neutral" about (and, therefore, does not object to) the sufficiency of the airspace design. See additional comments in Appendix 5, ID4.	
ID5	Neutral	Neutral			✓	Categorisation. Response does not impact the ACP.	
						Respondent is supportive. Proffered notification and operation suggestions noted and will inform ongoing engagements with between SaxaVord and the relevant parties.	
ID6	Strongly Agree	Strongly Support			√	Categorisation. Response does not impact the ACP.	
					•	Respondent is strongly supportive.	
ID7	Strongly Agree	Strongly Support				Categorisation. Response does not impact the ACP.	
					•	Respondent is strongly supportive.	





ID No	Q8 Response	Q15 Response		t Impact Proposed CP Submission	Response Does Not Impact ACP	Sponsor's Remarks/Comments
			Impact	No Impact		
ID8	Neutral	Strongly Object			✓	Categorisation. Response does not impact the ACP.
						Respondent is ""Neutral"" about (and, therefore, does not object to) the sufficiency of the airspace design and offers no actionable feedback on the proposed airspace design. See additional comments in Appendix 5, ID8.
ID9	Strongly Agree	Strongly Support			✓	Categorisation. Response does not impact the ACP.
						Respondent is strongly supportive. Proffered notification and operation suggestions noted and continue to inform ongoing engagements with between SaxaVord and the relevant parties.
ID10	Neutral	Neutral			✓	Categorisation. Response does not impact the ACP.
						Respondent is ""Neutral"" about (and, therefore, does not object to) the sufficiency of the airspace design and the proposal in general. Respondent's comments regarding notification, coordination and future environmental-focused collaboration are noted and will inform the necessary engagement with between SaxaVord and the relevant parties.
ID11	Strongly Agree	Strongly Support			✓	Categorisation. Response does not impact the ACP.
						Respondent is strongly supportive.
ID12	Agree	Neutral			✓	Categorisation. Response does not impact the ACP.
						Respondent agrees with the sufficiency of the proposed airspace design, but expresses neutrality over their support to the proposal. Proffered notification, coordination and operation observations are noted and continue to inform ongoing engagements between SaxaVord and the relevant parties.





ID No	Q8 Response	Q15 Response		Impact Proposed CP Submission	Response Does Not Impact ACP	Sponsor's Remarks/Comments
			Impact	No Impact	·	
ID13	Neutral	Strongly Object		✓		Categorisation. Response does not impact the ACP.
						Respondent is "Neutral" about (and, therefore, does not object to) the sufficiency of the airspace design.
						See additional comments in Appendix 5, ID13.
ID14	Neutral	Neutral			✓	Categorisation. Response does not impact the ACP.
						Respondent is ""Neutral"" about (and, therefore, does not object to) the sufficiency of the airspace design and offers no actionable feedback on the proposed airspace design. See additional comments in Appendix 5, ID14.
ID15	Neutral	Neutral			✓	Categorisation. Response does not impact the ACP.
						Respondent is "Neutral" about (and, therefore, does not object to) the sufficiency of the airspace design. See additional comments in Appendix 5, ID15.
ID16	Agree	Support		✓		Categorisation. Response does not impact the ACP.
						Respondent agrees with the sufficiency of the proposed airspace design and supports the proposal. See additional comments in Appendix 5, ID16.
ID17	Strongly Agree	Strongly Disagree			✓	Categorisation. Response does not impact the ACP.
						Respondent's strong disagreement at Qs 8&9 appear not to consider the overarching concept of safety by exclusion afforded by the proposed airspace reservation, as highlighted in the consultation materials and options appraisal.
						Respondent's strong objection at Q15 and comments at Q16 are focused on the planning and associated environmental impacts of the spaceport, as opposed to the airspace design.

Table 1 - ACP-2017-079 Stage 3 Stakeholder Responses - Analyses, Categorisation and Remarks





- 8.6. SaxaVord received a total of 17 survey questionnaire responses; 16 questionnaire responses through the Citizen Space platform and a further hand-written questionnaire response, which SaxaVord transposed to Citizen Space. One survey questionnaire was supplemented by an email from the respondent (NATS) and a further 3 email responses were received from other stakeholder organisations, offering that the ACP did not affect their activities:
- 8.7. SaxaVord's Categorisation of the Responses. SaxaVord's categorisation of the responses was guided by the following 2 principles:
 - a. The response was directed solely to design of the proposed airspace.
 - b. The respondents replied to Questions 8 and 15 in the Questionnaire.

SaxaVord could only categorise airspace and aviation-related comments; those responses that invoked other issues (for example, planning, environmental and non-aviation observations) were acknowledged.

- 8.8. Of the 17 survey questionnaire responses received and analysed, 14 were categorised "Response Does Not Impact the ACP". The remaining 3 questionnaire responses received were analysed and categorised "Response Might Impact Proposed Design and ACP Submission". SaxaVord's subsequent analysis of these responses and their comments resulted in all 3 being categorised as having "No Impact".
- 8.9. Respondents' survey questionnaire responses in full and SaxaVord's detailed comments and replies are at Appendix 5.
- 8.10. The categorisation and analysis of the survey questionnaire responses was that none would impact the proposed airspace design.

9. Conclusion.

- 9.1. The objective of the ACP-2017-079's consultation process was to consult the application's stakeholders (aviation and non-aviation) on the potential impact(s) of the proposed airspace design on their respective operations and activities. SaxaVord's aim was to ensure that the Application's stakeholders could participate fully in the consultation activity. This approach was articulated clearly in SaxaVord's Stage 3 Consultation Strategy document.
- 9.2. SaxaVord produced a common set of consultation materials for all stakeholders and made the materials available on the ACP-2017-079 portal and through the Citizen Space platform; this platform was the main consultation route and contained the corresponding survey questionnaire. In addition, the availability of print versions of all of the consultation materials, supporting documentation and questionnaire was highlighted on the SaxaVord website, social media, local radio and print media and leaflets were distributed to all Unst households. This approach ensured that 'seldom heard groups' would be included.
- 9.3. SaxaVord received 16 survey questionnaire responses through the Citizen Space platform, and one handwritten survey response, which was uploaded to Citizen Space. One survey questionnaire was supplemented by an email from the respondent and 3 email responses were received from other stakeholder organisations, offering that the ACP did not affect their activities.
- 9.4. SaxaVord collated, reviewed, categorised all responses and conducted an analysis of the results. The Stage 3 stakeholder responses and SaxaVord's analyses thereof concluded that there was no redesign requirement for the ACP-2017-079 proposed airspace reservation.

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10. Next Steps.

10.1. At Step 4B of the ACP process, SaxaVord will submit the airspace change proposal to CAA. This consultation report will be included as part of that submission.

List of Appendices:

- 1. ACP-2017-079 Stakeholders.
- 2. ACP-2017-079 SaxaVord Stage 3 Emails To Stakeholders.
- 3. SaxaVord Website Update.
- 4. SaxaVord Airspace Change Flyer for Unst Households.
- 5. ACP-2017-079 Stage 3 Stakeholder Survey Questionnaire Responses.
- 6. ACP-2017-079 Stage 3 Stakeholder Email Responses.





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Appendix 1 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

ACP-2017-079 STAKEHOLDER LIST

Avn/ Non-Avn	Organisation	Role/Title	Name	Email Address
Aviation	Aircraft Owners and Pilots Association (AOPA)			
Aviation	Airlines for Europe (A4E)	Generic Contact		
Aviation	Airport Operators Association (AOA)			
Aviation	Airspace Change Organising Group (ACOG)			
Aviation	Airspace4All (A4A)			
Aviation	Airtask (includes Direct Flight Ltd)	Head of Business Development and Safety		
Aviation	Association of Remotely Piloted Aircraft Systems UK (ARPAS-UK)			
Aviation	Aviation Environment Federation (AEF)			
Aviation	Avinor			
Aviation	Babcock International	Head of Flight Operations		
Aviation	Bristows Helicopters - Sumburgh			
Aviation	British Airways (BA)			
Aviation	British Balloon and Airship Club (BBAC)			
Aviation	British Business and General Aviation Association (BBGA)			
Aviation	British Glider Assoc (BGA)			
Aviation	British Hang-glider & Paraglider Assoc. (BHPA)			
Aviation	British Helicopter Association (BHA)	CEO		
Aviation	British Microlight Association (BMAA)			
Aviation	British Model Flying Association (BMFA)			







Avn/ Non-Avn	Organisation	Role/Title	Name	Email Address
Aviation	British Skydiving (BPA - Parachute Assoc)			
Aviation	CAA	Airspace Change Account Manager		
Aviation	Canadian Helicopter Corp (CHC)			
Aviation	Danish Armed Forces	Staff Officer Air Traffic Management		
Aviation	Danish Ministry of Transport			
Aviation	Eurocontrol			
Aviation	Flylogix	Ops Director		
Aviation	GAMA Aviation			
Aviation	General Aviation Alliance (GAA)			
Aviation	Helicopter Club of Great Britain (HCGB)			
Aviation	Highland & Islands Airports Limited (HIAL)			
Aviation	Spacehub Sutherland (previously listed as Highland & Islands Enterprise Limited (HIEL))			
Aviation	Honourable Company of Air Pilots (HCAP)	Generic Contact		
Aviation	Icelandic CAA			
Aviation	Isavia			
Aviation	Large Model Association (LMA)	LMA Secretary		
Aviation	Light Aircraft Association (LAA)			
Aviation	Loganair			
Aviation	MOD - Defence Airspace and Air Traffic Management (DAATM)	SO2 Airspace Plans, DAATM		
Aviation	NATO Air Comd	Static Air Defence Centre, CAOC UEDEM		
Aviation	NATS	Swanwick/Prestwick		
Aviation	Noordzee Helikopters Vlaanderen (NHV)			
Aviation	Norway CAA	Senior Inspector ATM		







Avn/ Non-Avn	Organisation	Role/Title	Name	Email Address
Aviation	PDG Aviation			
Aviation	Qinetiq Ltd			
Aviation	Shetland Flyer			
Aviation	Tingwall Airfield	AFISO		
Aviation	UK Space Agency			
Aviation	Windracers	Operations & Regulatory Specialist		
Non-Aviation	Compass Rose Charters			
Non-Aviation	Danish Ministry of Environment	Ocean Office/Mads Thelander, EU and International Office		
Non-Aviation	Govt of the Faroe Islands	Ministry of Environment, Industry and Trade		
Non-Aviation	Lamba Ness Common Grazings			
Non-Aviation	Lerwick Port Authority			
Non-Aviation	Maritime Coastguard Agency (MCA)	Station Cdr Shetland		
Non-Aviation	Met Office			
Non-Aviation	Ministry of Foreign Affairs of the Government of Greenland			
Non-Aviation	Natural Environment Research Council (NERC)	Generic Contact		
Non-Aviation	Northern Lighthouse Board	Generic Contact		
Non-Aviation	Norway - Royal Ministry of Trade, Industry and Fisheries, Research and Innovation Department (initially sole NOR POC)	Coordinator of response on future airspace and maritime activities		
Non-Aviation	Ocean Kinetics			
Non-Aviation	Offshore Energies UK	Generic Contact		
Non-Aviation	Offshore Petroleum Regulator for Environment & Decommissioning (OPRED)	Generic Contact		
Non-Aviation	North Sea Transition Authority (previously the Oil & Gas Authority)	Generic Contact		







Avn/ Non-Avn	Organisation	Role/Title	Name	Email Address
Non-Aviation	Oil & Gas UK			
Non-Aviation	Police Scotland	Police Constable		
Non-Aviation	PURE Energy Centre			
Non-Aviation	RNLI	Generic Contact		
Non-Aviation	RSPB	Generic Contact		
Non-Aviation	NHS Scottish Ambulance Service	Lerwick Ambulance Service		
Non-Aviation	NHS Scottish Ambulance Service (Air Ambulance)	NHS Health Scotland (Service Head of Air Ambulance)		
Non-Aviation	Scottish Govt (MSP Highland & Islands)	Wider Local MSP		
Non-Aviation	Scottish Govt (MSP Shetland)	Local MSP		
Non-Aviation	Scottish Natural Heritage			
Non-Aviation	Scottish Ornithologists' Club (SOC)	President		
Non-Aviation	Scottish Wildlife Trust			
Non-Aviation	Scottish Environmental Protection Agency (SEPA)			
Non-Aviation	Shetland Amenity Trust			
Non-Aviation	Shetland College/NAFC			
Non-Aviation	Shetland Fishermen's Association			
Non-Aviation	Shetland Islands Council	Ferries, airports and port engineering		
Non-Aviation	Shetland Oil Terminal Environmental Advisory Group (SOTEAG)			
Non-Aviation	UK Govt (MP Orkney & Shetland)			
Non-Aviation	UK Research & Innovation (UKRI)			
Non-Aviation	Unst Community Council	Clerk		
Non-Aviation	Unst Partnership Ltd	Chairman		

Table 2 - ACP-2017-079 Stakeholders





Appendix 2 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

ACP-2017-079 SAXAVORD STAGE 3 EMAILS TO STAKEHOLDERS

Introductory Email on 18 Apr 23.

SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CON...



Good afternoon,

Introduction. Shetland Spacecentre Limited (hereinafter referred to as "SaxaVord Spaceport" or "SaxaVord") seeks to conduct vertical orbital and sub-orbital launch operations from SaxaVord Spaceport on Lamba Ness, Unst, Shetland Islands. A suitable airspace reservation of defined dimensions is required to ensure the safety of SaxaVord launch activities from other airspace users and to ensure the safety of other airspace users from SaxaVord launch activities. A corresponding airspace change proposal (ACP) was initiated (ACP-2017-079) with the UK's Civil Aviation Authority (CAA) under the UK CAA's CAP1616 process. The Application has now progressed to the "Consult" stage (i.e. Stage 3), and your organisation has been identified as one of the stakeholders with whom SaxaVord seeks to consult at Stage 3.

CAP1616 Stage 3 *Consult*. Stage 3 is where SaxaVord undertakes its formal consultation with stakeholders. As part of its Stage 3 Consultation Strategy, SaxaVord has planned its stakeholder consultation and developed a series of related documents and materials. The CAA reviewed and approved SaxaVord's consultation strategy and materials on 18 Apr 23. Accordingly, SaxaVord is now implementing its consultation strategy and consulting its stakeholders, affording them the opportunity to provide relevant and timely feedback to enable SaxaVord to conduct its final options appraisal (i.e. Stage 4).

Application information and Stage 3 stakeholder consultation materials can be found on the Shetland Spacecentre (SaxaVord Spaceport)'s ACP-2017-079 page of the UK CAA's Portal at the following links:

ACP-2017-079 Stage 3 Stakeholder Materials.

ACP-2017-079 Full Options Appraisal

Stakeholder Consultation and Survey Questionnaire. The CAA directs the use of the "Airspace Change Citizen Space" platform to support sponsors' Stage 3 consultation processes. Consequently, SaxaVord's Stage 3 survey questionnaire is hosted on Citizen Space and can be accessed through the following link: https://consultations.airspacechange.co.uk/saxavord-spaceport/saxavord-spaceport-airspace-reservation, which is also contained in the stakeholder consultation materials (linked above).

Your feedback and comments at Stage 3 will not only be welcomed, but will also allow SaxaVord to understand how your activities and operations might be impacted by the activation of the proposed airspace design. Moreover, your feedback will enable SaxaVord to consider and, where possible, develop appropriate mitigations to minimise identified impact(s).

Stakeholders should note that the consultation process pertains solely to the ACP's proposed airspace design.

Timeline. The consultation period will remain open for 8 weeks and will conclude on Mon 12 Jun 23, after which the survey questionnaire will no longer be available. The scaled consultation period reflects the significant level of engagement and consultation to date on SaxaVord spaceport activities and its proposed airspace design(s), which have been notified previously to stakeholders.

Conclusion. In anticipation, thank you for completing your consultation response. Your response will be held and managed in the strictest confidence and in accordance with extant UK Data Protection guidance.

In the interim, please feel free to contact us if you have any further questions relating to this stage of ACP-2017-079's CAP1616 process.

On behalf of the Shetland Spacecentre Ltd (SaxaVord Spaceport), for the purposes of ACP-2017-079's CAP1616 application and associated processes.

http://www.avisu.co.uk/



https://saxavord.com/

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2. Reminder Emails on 2 May and 6 Jun 23.

RE: SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER C...



Good afternoon,

Our sincere thanks to all who have completed the online questionnaire and those who have submitted responses bilaterally. Stakeholders are reminded that the consultation window for SaxaVord Spaceport's proposed airspace design will close on Monday 12th June 2023.

In anticipation, very many thanks.

On behalf of the Shetland Spacecentre Ltd (SaxaVord Spaceport), for the purposes of ACP-2017-079's CAP1616 application and engagement processes.

http://www.avisu.co.uk/



https://saxavord.com/



From: SaxaVord Permanent ACP Sent: Tuesday, May 2, 2023 1:53 PM

To: SaxaVord Permanent ACP < saxavordpacp@avisu.co.uk >

Subject: RE: SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CONSULTATION

Good afternoon, ladies and gentlemen,

Thank you to those who have completed and submitted their online questionnaires. Stakeholders are reminded that the consultation window remains open until Monday 12th June 2023.

In the interim, please feel free to contact us if you have any further questions relating to this stage of ACP-2017-079's CAP1616 process.

On behalf of the Shetland Spacecentre Ltd (SaxaVord Spaceport), for the purposes of ACP-2017-079's CAP1616 application and associated processes.

http://www.avisu.co.uk/



https://saxavord.com/







Appendix 3 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

SAXAVORD SPACEPORT WEBSITE - ACP-2017-079 STAGE 3 NEWS UPDATE







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Appendix 4 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

SAXAVORD AIRSPACE CHANGE FLYER FOR UNST HOUSEHOLDS



In 2017, SaxaVord embarked on the UK Civil Aviation Authority (CAA)-mandated airspace change process, which is set out in Civil Aviation Publication 1616 (CAP1616).¹ SaxaVord's application for a suitable airspace reservation has now progressed to "Stage 3" of the CAP1616 process, where SaxaVord consults with those interested parties, including local communities. In the light of responses, SaxaVord may modify its proposed airspace design, before making the formal submission (i.e. Stage 4) of the proposal to the CAA for their decision.







 The UK CAA's regulatory document pertaining to airspace changes is Civil Aviation Publication 1616 (CAP1616), which sets out - inter a(a - airspace change sponsors' responsibilities and actions and CAA's regulatory and process requirements for UK airspace change proposals.





HAVE YOUR SAY

SaxaVord welcomes feedback and comments at Stage 3 of this application, and has created a corresponding set of consultation materials, which may be accessed on CAA's airspace change proposal on its website www.caa.co.uk under the tab Airspace. All documentation related to this application may be found there. There is also a simple, straight-forward survey questionnaire for stakeholders to complete.

The CAA directs the use of the "Airspace Change Citizen Space" site to support all Stage 3 consultation processes; the questionnaire may also be accessed via this QR code:

The consultation window will close on Monday 12th June 2023.



If you are unable to access the internet, please call +44 01806 220 403 for support and guidance.



What happens next with SaxaVord's Airspace Change Application?

Stakeholders' feedback and responses will be collated and reviewed, and, where appropriate, will inform the finalised airspace design, which is scheduled to be submitted to CAA at the end of June 2023.



www.saxavord.com











Appendix 5 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

ACP-2017-079 STAGE 3 STAKEHOLDER SURVEY QUESTIONNAIRE RESPONSES

Citizen Space Online Survey Questionnaire.

ID	Q1	What is your name?		Q2	Are you responding as an individual, or do you represent an organisation?	Q3	If you are responding on behalf of an organisation, what is the name of the organisation?	Q4	What is your email address?	Q5	What is your/your organisation's postcode?	Q6	If you are responding on behalf of an organisation what is your position/title?
	Q7	SaxaVord seeks direct from aviation and no stakeholders, alike. describes your associ this proposed permane change?	on-aviation What best iation with	Q8	To what extent do you agree that the proposed permanent airspace design provides a sufficient airspace volume to protect launch operations from other airspace users and vice versa?	Q9	Please explain your response to Q8.						
	Q10	SaxaVord is keen to mi	itigate the im	pact of it	s operation on its stakeholders. W	hat mitigati	ions would you suggest that could an	neliorate	e any concern(s) that you/your orgar	nisation n	night have?		
	Q11				ures and processes between Saxa any, do you have on ASM procedur		he relevant parties continued to be pplication?	Q12			nemoranda of understanding (MOUs) what feedback, if any, do you have or		en SaxaVord and the relevant parties and MOUs for the application?
	Q13	What feedback, if any, o	do you have (on the op	erating principles of the proposed	permanent	airspace reservation?	Q14	What additional general considera airspace change proposal?	ations m	ight you/your organisation like SaxaV	ord to	consider in relation to this permanent
	Q15	In general terms, to will proposed permanent ai			es your organisation support the	Q16	Please explain your response to Q15	5 Pleas	se comment on your/your/organisati	on's leve	el of support selection in the text box b	elow.	
ID	Sponso	or Categorisation, Assess	sment and R	emarks/(Comments								
	Respor to impa	Response Might Impact P Submi nses which have been cate act on the proposal wou that the change sponso tion in a lead design optio	ission egorised as h uld include n or believes	having the new infor could le	e potential mation or ad to an Response Does N	ot Impact /	ACP		Spons	or's Rem	narks/Comments		
	Thomas	Impact		o Impact			uld not Octororisation Changer's		mont of room one outcome.				
	show h	es have occurred to their	show why not been ac why the pr modified recommend	the respoted on a roposal of to m	onse has include new informa nd explain could lead to an ad cannot be design option or a new	tion or ide, aptation in widesign op information of consider which critical transfer in the content of the cont	Sponsor's explanatory remarks that a lead tion but in that ed. For eise the give future entified y areas gement riticism of avoid change how it assified its final		ment of response category. mments.				





Citizen Space Online Survey Responses

						I							
ID1	Q1			Q2	Organisat	ion	Q3		Q4	Q5		Q6	CEO
	Q7	Aviation stakeholder		Q8	Agree		Q9	I have no scientific proof either way	y but I tru	st you have done modelling			
	Q10	Make sure you activate	for shortes	t period (consistent v	vith safety							
	Q11	[No comment provided]							Q12	Make sure you have you have one with HM C	Coastguard and their SAR provider		
	Q13	[No comment provided]							Q14	[No comment provided]			
	Q15	Support					Q16	It is good for UK					
ID1		r Categorisation, Assess											
	Re	esponse Might Impact Pi Submi Impact	ssion	sign and lo Impac		Response Does Not ACP	Impact			Sponsor's Remarks/Co	omments		
		ппрасс		io irripac		✓		Categorisation. Response does no	ot impact	the ACP.			
										ation and operation suggestions noted and will	I inform ongoing engagements wit	h betw	veen SaxaVord and the relevant
								parties.		. 55			
ID2	Q1			Q2	Organisat	ion	Q3		Q4	Q5		Q6	Chief Pilot
	Q7	Aviation stakeholder		Q8	Neutral		Q9	Unable to assess this until sighted	on MOU/	LOA regarding short-notice access for SAR air	craft.		
	Q10	Nil											
	Q11	Nil							Q12	1. MOU/LOA for SAR access will need to be a in order to grant clearance into affected airsp link to the JRRC-AR (MCA) would also assist affected airspace as soon as possible, and for 2. NOTAMs should be issued ideally at least SAR crews are aware of the restriction during	pace for SAR assets, including helo in notifying SaxaVord of the requir or the JRRC-AR to pass access cle 24hrs prior and no later than 12hr	s, fixed rement arance s prior	d wing and UAS air assets. A direct for SAR aircraft to access to SAR assets. to airspace activation, such that
	Q13	None.							Q14	Continued 24/7 access to Baltasound Airfield currently in place.	d for emergency landing site acces	ss/sup	port to Unst residents as is
	Q15	Support					Q16	At this stage, nil objections pending	g clarifica	tion of MOU/LOA as described in Q12.			
ID2	Sponso	r Categorisation, Assess	ment and R	emarks/	Comments								
	Re	esponse Might Impact Pi Submi	ssion			Response Does Not ACP	Impact			Sponsor's Remarks/Co	omments		
		Impact	N	lo Impac	i.	✓		Categorisation. Response does no	nt impact	the ACP			
						*				ation and operation suggestions noted and will	Linform ongoing engagements wit	h betw	veen SaxaVord and the relevant
								parties.			sgog ongagomento wit		22 24 S. a and the relevant





ID3	Q1		Q2	Individual	Q3	Q	24	Q	95	Q6	[N/A]
	Q7	Non-aviation stakeholder	Q8	Agree	Q9	From what I have seen so far, airspace	is clear t	o the north.			
	Q10	Plenty of warning of any launch d	date/time.	Closure of no-go areas.							
	Q11	None at present.				Q.	12 No	ne.			
	Q13	None.				Q.	14 Do	n't know. It has to be safe for all co	oncerned.		
	Q15	Strongly Support			Q16	As long as safety measures are in place	e, Unst ne	eds this development. It is in a uni	que position to benefit from it due to it	s positior	1.
ID3	·	or Categorisation, Assessment and									
	R	esponse Might Impact Proposed D Submission Impact	esign and No Impac	Response Does Not I	Impact			Sponsor's Rema	arks/Comments		
		Impuot	Tto impac	<i>✓</i>		Categorisation. Response does not im Respondent is supportive. Proffered no	<u> </u>		ect of ongoing engagement between S	axaVord a	and the relevant parties.
ID4	Q1		Q2	Organisation	Q3		Q4		Q5	Q6	
	Q7	Aviation stakeholder	Q8	Neutral	Q9	I'm not an expert in rocket launces					
	Q10	Effects on operations/traffic: The On an average day it can be expectall, thereby, flying south of Shetlar emissions for those airlines needing Another item of consideration is the question, August to October, are as Financial Implications: Regarding where they would reroute their flew For an industry that has suffered the setbacks. As a result, this matter Recommendations: We recommended for the programment of the setbacks. We recommended the setbacks are sufficiently within the important of the setbacks.	area impacted to import and and inting to oper that the transmong the the financiet. It is of greated and that laupacted are	acted within BIRD FIR is one of the repact 76 flights, and over 230 flights to another FIR. In all cases, this would rate on a longer and less optimum reaffic volume depends on forecasted busiest months of the year with regional part, service fees are calculated us financial losses due to the COVID to concern to us and viewed with the bunch times be held from 22pm until	most freq over a 3- uld mean oute. The high leve gard to tra using flo pandem utmost s 8am in o called the	own kilometers within Reykjavik CTA. For nic over the last two years, therefore, any severity. Inder to minimize effects on air traffic.	Reykjavik reroute e increased affic cont e, over 40 r an avera negative	CTA. The estimated percentage of ither north of the impacted area or I workload for those FIR's taking or ollers and safety has not been ass 0 aircraft on a busy day. However, ge day in July, estimated financial financial impact will be proportional	decide to fly south of the launch posit in the extra traffic and an increase in f sessed but could be considerable shou t, this number could be a great deal hig impact on the company could be con ally more significant to our operations	ion and to light time Id traffic I gher with siderable at a time	o enter Reykjavik CTA later or not at and fuel burn and greenhouse gas evels align with current projections. favorable winds. The time period in depending on airlines decisions on when we can ill afford any financial
		Regulator: The regulator for Reykj	avik FIR is	the Icelandic Transport Authority (I	CETRA) ŀ	nttps://www.icetra.is/.					
	Q11	See answer to question nr 10					Q12	See answer to question nr 10			
	Q13	If the Icelandic CAA approves a Da	anger Area	a within BIRD CTA, a permanent airs	space is a	good idea.	Q14				
	Q15	Neutral			Q16	It is the Icelandic CAA (ICETRA) that ha	as the fina	I say in this.			





	F	Response Might Impact Pr	roposed Design a	nd ACP						
		Submis	ssion		Response Does Not Imp ACP	pact		Sponsor's Remarks/	Comments	
		Impact	No Im _i	Dact			Categorisation. Response does not impact the Al			
			·				Respondent is "Neutral" about (and, therefore, doe		airsnace design	
							Q10. - Effects on Operations/Traffic. The data cited at the ya carefully selected launch window. The ident Appraisal, Paras 15-37. As offered at the Full "computations associated with a more detailed an ATM route loading and airline routing policies/strated Options Appraisal, Paras 40 & 41, appropriately can SaxaVord seeks to minimise impact on other airsy patterns, due to the activation of the proposed air will seek to optimise all flights' routes based on air an ANSP's resource requirements for the duration - Financial Implications. See previous comments regeronter information. Noted; SaxaVord continues	ne response to Q10 is noted; however, ification of the peak hour of the peak of Options Appraisal, Paras 25-28, the lalysis are too numerate and, undoubted tegies". Similarly, SaxaVord's assessive ated at Para 42. Seasonal variation bace users by identifying and selecting space design for those short, notified space reservations across the entire number of small, pre-notified launch window (regarding launch window selection, mitarding launch window selection.	the data may not necessarily reday and resultant data and calcurerouting methodology employ dly, would be influenced by - interment of the potentially impacted as are discussed at Full Options as suitable launch windows of the periods would be the purview of etwork. SaxaVord acknowledges, as do other airspace reservationimisation of potential impact(s	ulations were set out clearly in the <u>Full Options</u> ed was not complex and acknowledged that er alia - the prevailing meteorological conditions, d flights' fuel burn and CO2e is offered at <u>Ful Appraisal</u> , Para 20. The minimum duration required; any shift in traffic of EUROCONTROL Network Management, who is that a shift in air traffic patterns could impact tions and aerial activities.
							- Further Information. Noted; Saxavord continues	to engage with - <i>inter alia</i> - the North S	sea nelicopter community.	
ID5	Q1		Q2	Organisation	ı	Q3	Q4	Q	5	Q6
	Q7	Non-aviation stakeholde	er Q8	Neutral		Q9	The Met Office releases radiosondes (weather bhumidity) from its Observatory in Lerwick (NGR 44 and falling back to earth. We believe the risk of co	5449E, 1139734N) . These are release	ed daily at 1115UTC and 2315UT	
	Q10	_ ·	ontrol over the tra	ajectory of the i	radiosondes that we launch		that a rocket is launched while a radiosonde (weath _erwick. As such, we think that it would be sensible	•	•	·
	Q11	[No comment provided]		·			Q12	radiosonde launch times before the consultation time, we could resched likely. We recommend an SLA bet	ney take place, on days where lule the radiosonde launch time tween Saxavord and the Met essfully. There is also the op	e request consultation with Saxavord around e a rocket launch is planned. With sufficient s to avoid the airspace if a clash might appear Office, in order to formalise the process of portunity for Saxaford to request additional direction ahead of rocket launches.
	Q13	[No comment provided]					Q14	[No comment provided - the following	g text was moved from Q6] planning process as a consultee ave an adverse impact on data a	to protect our meteorological observing sites and services. See
	Q15	Neutral			(Q16	Our main consideration is our radiosonde operation	ons and how we can work together to	ensure they and the spaceport of	operations are successful.
ID5	Sponse	or Categorisation, Assessr	ment and Remar	ks/Comments						
	F	Response Might Impact Pr Submis		nd ACP	Response Does Not Imp	pact		On a manufa Damandar (10	
		Impact	No Im	pact	ACP			Sponsor's Remarks/	Comments	
		ii i i paret	110 1111	3401						
		puot	110 1111		√		Categorisation. Response does not impact the Ad	CP.		





Q1			Q2	Individual		Q3		Q4		Q5	Q6	[N/A]
Q7	Non-aviation stakeholde	er	Q8	Strongly a	gree	Q9	Legally required			'		
Q10	No comment.		•									
Q11	None							Q12	None			
Q13	None							Q14	No further comments			
Q15	Strongly Support					Q16	Regeneration of the island of Unst					
Sponsor	r Categorisation, Assessn	ment and Re	emarks/(Comments								
Re	Submis	ssion			Response Does Not In	mpact			Sponsor's F	Remarks/Comments		
					✓		Categorisation. Response does no	t impact	the ACP.			
							Respondent is strongly supportive.					
Q1			Q2	Individual		Q3		Q4		Q5	Q6	[N/A]
Q7	Non-aviation stakeholde	er	Q8	Strongly ag	gree	Q9	Legally required					
Q10	No concerns.											
Q11	None							Q12	No concerns.			
Q13	No concerns.							Q14	None			
Q15	Strongly Support					Q16	No concerns.					
Re					Response Does Not Ir	mpact			Sponsor's F	Remarks/Comments		
	Пірасі	NO	o impact		✓		Categorisation. Response does no	t impact	the ACP.			
	Q7 Q10 Q11 Q13 Q15 Sponsor Re Q1 Q7 Q10 Q11 Q13 Q15 Sponsor	Q10 No comment. Q11 None Q13 None Q15 Strongly Support Sponsor Categorisation, Assessi Response Might Impact Pr Submis Impact Q1 Q7 Non-aviation stakeholde Q10 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support	Q7 Non-aviation stakeholder Q10 No comment. Q11 None Q13 None Q15 Strongly Support Sponsor Categorisation, Assessment and Response Might Impact Proposed Des Submission Impact N Q1 Q7 Non-aviation stakeholder Q10 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support Sponsor Categorisation, Assessment and Response Might Impact Proposed Des Submission	Q7 Non-aviation stakeholder Q8 Q10 No comment. Q11 None Q13 None Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/O Response Might Impact Proposed Design and Submission Impact No Impact Q1 Q2 Q7 Non-aviation stakeholder Q8 Q10 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/O Response Might Impact Proposed Design and Submission	Q7 Non-aviation stakeholder Q8 Strongly available Q10 No comment. Q11 None Q13 None Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission Impact No Impact Q1 Q2 Individual Q7 Non-aviation stakeholder Q8 Strongly available Q1 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission	Q7 Non-aviation stakeholder Q8 Strongly agree Q10 No comment. Q11 None Q13 None Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission Impact No Impact Q2 Individual Q7 Non-aviation stakeholder Q8 Strongly agree Q10 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission Response Might Impact Proposed Design and ACP Submission Response Does Not In ACP	Q7 Non-aviation stakeholder Q8 Strongly agree Q9 Q10 No comment. Q11 None Q13 None Q15 Strongly Support Q16 Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission No Impact ACP Q1 Q2 Individual Q3 Q7 Non-aviation stakeholder Q8 Strongly agree Q9 Q10 No concerns. Q11 None Q13 No concerns. Q15 Strongly Support Q16 Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Q16 Sponsor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP Submission Response Does Not Impact ACP Response Does Not Impact Response Does Not Impact ACP	Q8 Strongly agree Q9 Legally required	Q7 Non aviation stakeholder Q8 Strongly agree Q9 Legally required	None available takeholder Q8 Strongly agree Q9 Legally required	100 No comment 101 None 101 Non	No comment No







ID8	Q1		Q2	Individual	Q3		Q4	Q5	Q6	[N/A]
	Q7	Non-aviation stakeholder	Q8	Neutral	Q9	Not qualified to comment.				
	Q10	The environmental impact of the s	paceport	s has been considerably underplay	ed and its	s impact on internationally importan	t seabird o	olonies has not been properly assessed, despite claims to the	contrary.	
	Q11	[No comment provided]					Q12	[No comment provided]		
	Q13	[No comment provided]					Q14	[No comment provided]		
	Q15	Strongly Object			Q16	The whole project is a flawed cond	cept IMVH	O, with scant regard being shown for planning regulations and	environmental protectio	n.
ID8	Sponso	or Categorisation, Assessment and R	emarks/	Comments						
	Re	esponse Might Impact Proposed De Submission		Response Does Not	Impact			Sponsor's Remarks/Comments		
		Impact N	lo Impac	· ✓		Categorisation. Response does no	ot impact	he ACP		
						Respondent is "Neutral" about (an design. The respondents' comments at Qs associated consultation. The resp to the airspace design; accordingly During the planning application for representatives consulted and eng (HRA) was one of many component	d, therefore 9 and 16 condent's 6, the respondent Space 1 and 1 an	e, does not object to) the sufficiency of the airspace design are acknowledged and noted but are not directly applicable to to objections appear focused on the planning and associated potense does not impact the proposed airspace design and/or the eport and the subsequent Environmental Impact Assessment are ensively and made available its concomitant reports and supp	he airspace change proceential environmental imperior ACP submission. and Assessment of Envirorting evidence, of whice	cess, proposed airspace design and pacts of the spaceport, as opposed commental Effects, SaxaVord and its





ID9	Q1			Q2	Organisati	on	Q3		Q4		Q5	Q6	Regulatory Specialist
	Q7	Aviation stakeholder		Q8	Strongly a	gree	Q9	Having read the material for Stake reasonable and effective at securi			nent and visiting the site to fully understand the in other airspace users.	mpact of the airspace change I be	lieve the airspace design is
	Q10	The most effective miti an activation period of o					tion and o	other airspace users would involve a	activating th	he airs	space for the shortest possible duration. This has	as been covered in the stakeholder	engagement material suggesting
	Q11	Currently no feedback f	for ASM.								mpact of the airspace change on Windracers ope application process.	perations is minimal. Windracers is	happy to support the ACP-2017-
	Q13	Any impact to Windrace can be integrated with t				d in real time and we b	elieve op	erations and aircraft movements	Q14	We a	re happy to support the ongoing ACP as it is.		
	Q15	Strongly Support					Q16				lered in an effective and non disruptive manner. T n the UK. For these reasons Windracers are happy		ws for efficient use of the
ID9	Sponso	or Categorisation, Assessi	ment and Re	emarks/	Comments								
	R	esponse Might Impact Pr Submis Impact	ssion	sign and o Impac		Response Does Not ACP	Impact				Sponsor's Remarks/Comments	3	
		ппрасс	140	o impac		✓		Categorisation. Response does no	ot impact tl	he AC	P.		
								Respondent is strongly supportive).		noted and continue to inform ongoing engagemer	ents with between SaxaVord and t	ne relevant parties.
ID10	Q1			Q2 C)rganisation		Q3		C	04	Q5	Q6	Executive Officer
	Q7	Non-aviation stakeholde	er (Q8 N	leutral		Q9	I am not an expert in this field .					
	Q10	We would like assurance	es that the w	vork carı	ried out by S	OTEAG would not be je	opardise	d by the operations of SaxaVord					
	Q11	[No comment provided]							Q	12	All parties should be properly informed and any full disclosure.	mpact on other users or interest	ed parties in the area should have
	Q13	It would be of interest to of interest to us to know beyond) of SaxaVord.	o us if SaxaV v if there are p	ord have plans to	e any interes carry out co	t in working collaborati ntinuous environmenta	vely on thal assessi	ne environmental assessments. It is ment throughout the operational life		14	[No comment provided]		
	Q15	Neutral					Q16	I have no strong opinion as long as life.	s measures	s are p	put in place to protect the natural heritage of the	area, and those measures are co	ntinuous through the operational
ID10	Sponso	r Categorisation, Assessr	ment and Re	emarks/(Comments								
	Ro	esponse Might Impact Pr Submis	ssion	ign and o Impac		Response Does Not ACP	Impact				Sponsor's Remarks/Comments	6	
		Impact	INC	о ппрас		✓		Categorisation Response does no	ot impact t	he AC	CP		
								Categorisation. Response does not impact the ACP Respondent is ""Neutral" about (and, therefore, does not object to) the sufficiency of the airspace design and the proposal in general. Respondent's comments regarding notification, coordination and future environmental-focused collaboration are noted and will inform the necessary engagement with between SaxaVord and the relevant parties.					







ID11	Q1		Q2	Organisation	Q3		Q4		Q5	Q6		
	Q7	Non-aviation stakeholder	Q8	Strongly agree	Q9	The site location at Lamba Ness in Unst	has repe	atedly been cited as being ideal ge	eograph	ically as there is nothing to restrict proposed flight trajectories.		
	Q10	None.										
	Q11	None.					Q12	None.				
	Q13	None.					Q14	Safety is vital but there is con operations safety will be a prior		that through the necessary regulatory processes in all parts of airspace		
	Q15	Strongly Support					Q16			nnovation. This proposal will benefit the UK's space industry development, and as a whole, and the wider country.		
ID11	Sponso	or Categorisation, Assessment and	d Remark	s/Comments								
	R	Response Might Impact Proposed Submission	Design a	Response Does Not I	mpact		Sponsor's Remarks/Comments					
		Impact	No Imp	act								
				✓		Categorisation. Response does not impa	Categorisation. Response does not impact the ACP.					
						Respondent is strongly supportive.						





ID12	Q1		Q2	Organisation	Q3		Q4	Q5 Q6
	Q7	Aviation stakeholder	Q8	Agree	Q9	Based on the consultation mat users.	erial, it app	ppears that the proposed dimensions of the area are sufficient in ensuring that the activities remain segregated from other
	Q10	It is noted that discussions are o against MOD assets in the vicinit	ngoing v :y. These	vith MOD for the creation of a LOA the are the 2 primary areas of concern	at defines l for MOD st	how MOD can request an abortior akeholders, so when the agreeme	n/suspensi ent is reach	ision of activity in the event of an Air Policing requirement to cross/access the area, as well as deconfliction of spectrum usa ched to mitigate these concerns, it should only be airspace management issues that require mitigation (see next section).
	Q11	(and involve MOD staff) then ther supporting defence. This is som discussion, particularly where air This raises further questions ar airspace supporting the commer the following activities: coordinates border operations; coordinates airspace for the event (midnitude).	e is a wide ething the space of cound go could space atting the attion of light evolutes.	consor proposes to manage the airs der question about resource allocation at the Civil Airspace Managers are Innangement associated with their provernance, priorities, cost and resource activity. Previous space activity i.e. NOTAM activity – creations/cance associated training activity – training lution); attended the biweekly planning or a single event, so the MOD wishes thing) is requested of the MOD.	on for commode for to ensign to ensign opposed action or commode. Virgin Orbellation; cregisorties wing meeting	nercial activity that is not directly sure is raised in any new entrant tivity is required. ed for the management of the bit, required the AMC to carry out ation of specific LOAs to cover the airspace activation; managed is over a 6 month period. These	Q12	Please see response to question 10.
	Q13			rea i.e. only using the airspace neces aligns with the principles of FUA.	ssary for ea	ach specific launch type and for	Q14	The MOD wishes to understand what priority these activities will have in relation to existing airspace activities e.g. values always receive a high priority, or will it depend on the payload being delivered? An understanding of what priority the sponsor is requesting from the CAA would be useful for the MOD's wider SA.
	Q15	Neutral			Q16	The MOD does not object to the	e proposal	al but wishes to remain neutral in terms of supporting it.
ID12	Sponso	or Categorisation, Assessment and	l Remarl	ks/Comments				
	R	lesponse Might Impact Proposed I Submission Impact	Design a	Response Does No	ot Impact			Sponsor's Remarks/Comments
		Impact	110 1111	√ ·		Categorisation. Response does	not impa	pact the ACP.
						and operation observations are Q10. Operational and asset saf Q11. Comments are acknowled entities are dealt with on a case SaxaVord acknowledges the serroneous, for example, there is is no additional training required FIRs/UIRs. NOTAM activity wou LOAs/MOUs with international	noted and reguarding dged. CAF by case b cale, comp no launch ment to acquid be correpartners.	AP740 offers that "[t]emporary airspace structures and those structures wishing to be utilised by new entrants or commerce basis whilst revised policy is drafted". SaxaVord, therefore, awaits CAA's decision and resultant policy guidance. In applexities and differing launch requirements of the Virgin Orbit activities, but would contend that the comparison could be training sortie requirement and associated demand on MOD resources (i.e. 78 Sqn). In addition, SaxaVord believes that the accommodate the proposed airspace design over and above the routine activation and deactivation of existing SUAs within trespondingly low, to support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum, and SaxaVord is already well embarked on developing the necessing support up to 30 launches per annum and saxaVord is already well embarked on developing the necessing support up to 30 launches per annum and saxaVord is already well embarked on developing the necessing support up to 30 launches per annum and saxaVord is already well embarked on developing the necessing support up to 30 launches per annum and saxaVord is already well embarked on developing the necessing support up to 30 launches per annum and saxaVord is already well embarked and saxaVord is already

^{1.} CAP740, Chapter1, Para 1.14 (online), accessed on 27 Jun 23.





ID13	Q1		Q2	Organisation		Q3		Q4	Q5		Q6	Inspector Air Navigation Services	
	Q7	Aviation stakeholder	Q8	Neutral		Q9	the methods and calculations. T or inside the exclusion zone.	he applic		insurance in case the launch goes	s wrong	A has the responsibility to verify/validate and the vehicle causes damages outside lines all the way to the furthest point.	
	Q10	Mitigation on revenue loss for the	e ANSP´	s for lost traffic	through FIR, that goes	hand in h	nand with increased cost (workload	d) for re-r	n to send satellites on the correct orbital to outing traffic. Is are the only party paying the cost currer		pasis.		
	Q11	different FIR. Hence it's foreseer on other FIR's. This happens at s	or longe ook like a r the los n that thi same tin	er period). The an example for s of revenue for s area will have ne the ANSP's a	e calculation of number some best case scenarion or one ANSP's against it e negative impact on tra are fragile and recoverir	r of aircr io even th increased iffic into s ing from a	aft affected and the calculated nough it is stated that a peak day drevenue for another ANSP in a some FIR's while positive impact ccumulated debt from the Covid	Q12	entrants in the ATM have not been regul danger area for rocket launces [sic]. Even though ICAO supports equal acc airspace management and the service	ated so the playing field is not reac ess to the airspace, to day airspa provided by the ANSP's. The sys	dy for suc ace user tems in	s to consider all implications. These new ch dramatic decision to define permanent is are the ones paying for the service of place are extremely expensive and count ea even though activated infrequently can	
	Q13	The calculations do not consider the loss of revenue for one ANSP's against different FIR. Hence it's foreseen that this area will have negative impact on tron other FIR's. This happens at same time the ANSP's are fragile and recover period. The same goes for the airlines, increased re-routing induces cost and in the papers do not mention how the launch and subsequent ditching of the verset fact that UK is a part of the London convention, the Convention on the Prev Wastes and Other Matter. Strongly Object Response Might Impact Proposed Design and ACP						Q14	No comment.				
	Q15	Strongly Object	ongly Object Q16 The s				The system is not ready for pern	ne system is not ready for permanent area for rocket launces [sic]. Ad-hoc approvals while experience is gained is more appropriate.					
ID13	Sponso	consor Categorisation, Assessment and Remarks/Comments Response Might Impact Proposed Design and ACP											
	R	Response Might Impact Proposed Design and ACP Submission Response Does Not Impact Proposed Design and ACP					Sponsor's Remarks/Comments						
		Submission Response Does Not Im					Categorisation. Response does not impact the ACP.						
							Respondent is "Neutral" about (a	nd, there	fore, does not object to) the sufficiency o	f the airspace design.			
							Q9. SaxaVord's design evolution was articulated and design principles outlined at Stage 2 and, latterly, at the application's <u>Full Options Appraisal</u> , Para 6 (et al). is no third-party liability required for airspace design. The rationale for the evolution of the proposed design between Stage 2 and Stage 3 was highlighted application's <u>Full Options Appraisal</u> , Paras 6-14 and in the <u>Stakeholder Consultation Materials</u> , Slides 10-14.						
							Q10. The rationale for preferred launch trajectories was highlighted at the application's Stage 2 submission , Para 5. The number of potential launches per annum we highlighted at - inter alia - the application's Full Options Appraisal , Para 39 and in the Stakeholder Consultation Materials , Slide 22. Launches will not be conducted hoc but scheduled and notified appropriately to the relevant parties. SaxaVord seeks to minimise impact on other airspace users by identifying and selecting suitable launch windows of the minimum duration required; any shift in traffic patterns, due to the activation of the proposed airspace design for those short, notified period would be the purview of EUROCONTROL Network Management. New market entrants' (including space actors') monetary contributions to airspace regulators outside the purview of the UK's ACP process.					le 22. Launches will not be conducted <i>ad</i> users by identifying and selecting suitable the design for those short, notified periods	
							Q11. The identification of the pe at the Full Options Appraisal, Par analysis are too numerate and, policies/strategies. Similarly, "flig whole route of the flights' routes' other airspace users by identifyi	ak hour cas 25-28, undoubt ghts' route'. The AE	of the peak day and resultant data and cal the rerouting methodology employed was edly, would be influenced by - inter alia es would be planned on the ground, prior to OS-B data source remains subject to Inter	s not complex and acknowledged to the prevailing meteorological co departure, to accommodate know mational Trade in Arms Regulation minimum duration required; any sh	that "con condition on airspa n (ITAR). nift in tra	ptions Appraisal, Paras 15-37. As offered inputations associated with a more detailed s, ATM route loading and airline routing are reservations and constraints across the SaxaVord seeks to minimise impact on affic patterns, due to the activation of the	
	[Continued Overleaf]												







ID13	Sponsor's Remarks/Comments (contd)
	Q12. SaxaVord is acutely aware of the far-reaching implications of space launch operations from The Shetland Islands and continues to engage with all relevant parties - national, international and EUROCONTROL. In the UK, the CAA is the space regulator, with whom SaxaVord continue to engage at every step of - inter alia - the spaceport licencing and ACP processes. Any shift in traffic patterns, due to the activation of the proposed airspace design for those short, notified periods would be the purview of EUROCONTROL Network Management. New market entrants' (including space actors') monetary contributions to airspace regulators and ANSPs is outside the purview of the UK's ACP process. Reference to ICAO is noted: "ICAO [is] established to help countries share their skies to their mutual benefit". ² Q13. Covered by extant MOU between HMG and Government of Iceland and marine licensing processes.
	Q16. The "strongly object" at Q15 is noted. We must guard against confusing permanence of the proposed airspace reservation (i.e. within an AIP) with permanence of activation. The observation about the "system's" preparedness "for [a] permanent area [for] space rocket [launches]" is noted. The EUROCONTROL Network (i.e. the system) has a strong pedigree in managing airspace reservations safely and successfully. These and other space-launch- related ACPs are the very means of engaging and consulting all of the relevant parties and stakeholders increase understanding on all sides. Launches will not be conducted <i>ad hoc</i> but scheduled and notified appropriately to the relevant parties.
	The proposed design builds in flexibility of use of the airspace, to manage the known differing LVs' requirements at this stage; as the space industry and, in turn, SaxaVord's understanding of LV's airspace requirements continues to mature, so too might the airspace design. Further LV maturation coupled with Stage 7 PIR data and results would be the catalysts for a future design iteration (either a reduction or an expansion), which would involve an associated ACP, if required. Similarly, Stage 7 activities could identify a need to amend, refine and update notification and coordination procedures, including LOAs and MOUs.

2. ICAO (2023), "About ICAO" (online), accessed on 23 Jun 23.







ID14	Q1		Q2	Individual	Q3	Q4	Q5		Q6 [N/A]
	Q7	Non-aviation stakehold	der Q8	Neutral	Q9	consulted do not have the expertise to exp		tion when it is only accessible by QR	ver. This is not a real consultation if those being code as a large proportion of the local population vas not accessible
	Q10								e of Covid. Regular public meetings are essential. deration has been given to this. It is unacceptable.
	Q11	No comment. This 'pul	olic consultation ' i	is a nonsense. How can the publi	c respond?	Q12	No comment. See above		
	Q13	of the local and wildlif	e populations. Ope		stepped on	re and attention to many aspects a regular basis, I'm told. I cannot folk to know about these things	more respect and regular communicatio	n with locals. Many folk are turning	xpertise of the local population. There needs to be against this development as they are fed up with . This rudeness and contempt are unacceptable
	Q15	Neutral			Q16	More communication is essential. Stop th	ne rudeness		
ID14	Sponso	or Categorisation, Asses	sment and Remark	ks/Comments	1				
	Re	esponse Might Impact Pi Submi		Response Does N ACP	ot Impact		Sponsor's Rema	arks/Comments	
				✓		Categorisation. Response does not impa	ct the ACP.		
						design. Comments at Qs 9, 10, 11, 13, 14 and 16 frustration from the respondent. SaxaVord engages the local community o to take the opportunity to contact and engand broadcast interviews, and regularly he There has been extensive formal (i.e state application and environmental assessme applied to the recent airspace change cor Consultation activities on the SaxaVord a which the respondent refers, but also a toproposed airspace design. Stakeholder of the proposed airspace design bilaterally, of The recent consultation activity was highly (such as those of the Unst Partnership). In its future ACP-related and wider engages.	are acknowledged and noted. SaxaVord agen Unst (and wider) routinely through a variet gage with the spaceport. SaxaVord continuous bilateral and group visits and meetings atory) public communication, engagement ent, which actively sought and received stabultation. irspace change proposal included leaflet delephone number to enable local residents onsultation materials also cited the spacepor receive print versions of the associated mighted to local residents and stakeholders to addition, leaflets were made available at agements and/or consultations, SaxaVord tation to ensure that local residents and, included residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and, included leaflets were station to ensure that local residents and included leaflets were station to ensure that local residents and included leaflets were stations.	y of means - both electronic and phyes to engage locally on a regular base at the spaceport to discuss the lateral consultation on a number of keakeholder feedback and responses to get in touch with SaxaVord if the ort's postal address and a contact materials and/or survey questionnai through print media (local newspapoublic venues, such as shops and lift will continue to proactively seek	ers), local radio and at local community meetings braries. and employ the most appropriate methods of and continue to have every opportunity to engage







ID15	Q1		Q2	Organisation	Q3		Q4	Q5		Q6	Head of Systems Engineering
	Q7	Aviation stakeholder	Q8	Neutral	Q9	Sutherland Spaceport does not see enough evidence for safety/risk impacts of launch operations from Saxavord to either support or object to the statement that the size of airspace adequately protects other airspace users.					
	Q10	Due to similar airspace u they arise.	usage and potentia	lly overlapping launch windows	, Sutherland	Spaceport recognises the potentia	aceport recognises the potential for range and airspace activation conflicts, and expects the CAA to establish processes for adjudicating any airspace clashes should				
	Q11	None				Q12 None					
	Q13	None				Q14 None The airspace change proposal is expected to have limited impact on spaceflight operations from Sutherland Spaceport, provided the CAA manages to appropriately arbitrate temporal and spatial airspace usage between UK Spaceports.					
	Q15	Neutral			Q16						
ID15	Sponso	or Categorisation, Assessm	nent and Remarks,	/Comments							
	R	esponse Might Impact Pro Submiss		Response Does	Not Impact			Sponsor's Remark	ks/Comments		
		Impact	No Impad	et ACP							
				✓		Categorisation. Response does	s not impa	et the ACP.			
						Respondent is "Neutral" about (and, therefore, does not object to) the sufficiency of the airspace design. Q9Comment is noted.					
						Q10. Comments are noted.					
						Q16. Comments are noted.					





ID16	Q1		Q2	Organisation	Q3		Q4		Q5		Q6	
	Q7	Aviation stakeholder	Q8	Agree	Q9	There is a clear intent to provide some comments on the number	e levels of er and desi	flexibility to the area required to b gn of boxes later in the response.	e segregat	ted, therefore minimising impa	act to othe	er airspace users. We have also provided
	Q10	The traffic analysis provided doe We would welcome an explanati We believe that areas defined ale a separate PDF version of our resp Appendix 2 slide 26. We are not	ion as to ong trajec oonse whi	the extent of the areas that will notories would resolve this issue. och includes the edited slide.	eed to be a We intende	ctivated per launch. The orientation of Sl	on of the bide 26 as a	noxes also does not lend itself to a an example; however, we recognis	etivating r e that diag	ninimum airspace as they as grams are unable to be display	defined No	
1. It is noted that the "launch window" is intended to be of one hour duration. However, it remains to be understood what time window, in ASM terms, will need to be applied to the segregation. Clarity on that would be welcome 2. In the UK ASM is underpinned by the Joint and integrated concept between NATS, the CAA and the MoD. This governance structure does not cater for commercial use of SUA at present. 1. It is noted that the "launch window" is intended to be of one hour duration. However, it remains to be understood what time window, in ASM terms, will need to be applied to the segregation. Clarity on that would be welcome 2. In the UK ASM is underpinned by the Joint and integrated concept between NATS, the CAA and the MoD. This governance structure does not cater for commercial use of SUA at present. 1. It is CAA delegates responsibility for ensuring the most efficient use of airspace to the civil Airspace Manager and the Military Airspace Manager through CAP740. This provides the necessary expertise to conduct Collaborative Decision Making to ensure the the MoD commercial benefit of other airspace users. 1. It is not clear in the Consultation who is expected to manage the airspace on behalf of SaxaVord? Currently the MoD provide resource within the AMC to provide this function for the MoD. 1. The UK ASM is understanced to be applied to the segregation. Clarity on that would be welcome 2. In the UK ASM is underpinned by the Joint and integrated concept between NATS, the CAA and the MoD. 1. The UK ASM is underpinned by the Joint and integrated concept behave not a the MoD. 1. The dynamics of three States/ANSPs being involved could become complex. Clarity and the population of three States/ANSPs being involved could become complex. Clarity and the dynamics of three States/ANSPs being involved could become complex. Clarity and the dynamics of three States/ANSPs being involved could become complex. Clarity and the dynamics of three States/ANSPs being involved could become complex. Clarity and the dynamics				nplex. Clar	ity on the mechanisms required for an							
				nis needs t	to be reflected in this document. Please							
	Q15	Support			We have also taken the opportur 1. The 2019 pre-COVID traffic more are Polar flows that would not he assessed as it already has a great 2. Whilst it is appreciated that the which would match the smallest complexity. a. The maximum number of With that said only 3 segment with the remainder in Iceland across the 3 states involved in b. Notwithstanding the about number, not least as this becauted lead to a distracting and c. The methodology to be used been involved in discussion), Norway as well as the EU New This would need to be establing require appropriate resource. 3. If there is a restriction built to a agreed between key stakeholder Early notification of dates is require activation would be added to the A. ACP Slide 25. Given recent expenses.			be used for the activation and de-activation of the area requires further understanding (we are not sure to what extent UK AMC ma on), it is assumed that a single AMC will be responsible for activation and deactivation, co-ordinating between the UK, Iceland and I Network Manager via an integrated AUP/UUP for the 3 states. tablished; as well as a FUA restriction for all the segments. It is also assumed that activations could happen on weekends, which we lirce to achieve a safe process. It to accommodate this launch then a Lead AMC, which we would expect to be the UK, will be established and coordination procedu				





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ID16 (contd)		Q16 (contd)	5. Full Options Appraisal: Appendix 1, Table on page 1-7 This suggests that there is no financial impact to ANSP operations or infrastructure etc. For such activities, there is always a cost in terms of adaptation, training and additional workload as well as associated activities which also cost time, money and resource. We suggest that this table is amended to reflect this.		
			6. Slide 7 (ACP): Slide assumes FRA starts at FL 195+, however, FRA starts above FL255 in the UK and FL135 in Norway. We believe Iceland and Oceanic is FL55. Slide needs to be amended to correctly refer to the lower vertical limits of FRA.		
			7. Full Options Appraisal: Para 37- Fuel burn impact described as a % of the entire flight could be misleading. We suggest this is better presented as a comparison between fuel burn/CO2 (kg) between the activated and non-activated states.		
			8. Full Options Appraisal: Table 2 fuel numbers do not look right: 27670 tonnes fuel *9.61 kg/km fuel gives a total distance ~2660000km (3dp) not 2880000k- please can you confirm if this is correct?		
			9. Slide 36 the ACP document states that no flights below 7,000, however Pages 25/26 of the Full Options Appraisal states at most 2 in an h, 6 in a day, please can you confirm which is correct?		
			10, Aircraft could already utilise the shorter route through UK Airspace, therefore what is the sponsors rationale behind aircraft choosing this as their option when the activation of the Danger Area takes place? Aircraft may still choose to fly around; however, it doesn't appear that this option has been explored or the environmental impact assessed.		
			11. Full Options Appraisal: Paras 59 and 60 - We believe there is an incorrect assumption regarding traffic below 7000'. The identified flights are likely to be commercial offshore helicopters in support of the offshore energy industry, operating IFR. Depending on the destination, rerouting may not be a possibility therefore delay or cancellation of the flight may be required. However, it should be noted there are currently no fixed offshore assets within the lateral confines of the proposed airspace, but mobile exploration rigs can operate within those areas.		
			12. Activation of the volumes should include procedures for reacting to SAR and safety of life flights.		
ID16 Sr	ponsor Categorisation, Assessment and Remarks/C	Comments			
	•	5			
Re	Response Might Impact Proposed Design and ACP Submission	Response Does Not Impact ACP	Sponsor's Remarks/Comments		
	Impact No Impact				
	✓		Categorisation. Response does not impact the ACP.		
			Respondent agrees with the sufficiency of the proposed airspace design and supports the proposal.		
			Q10.		
			1. SaxaVord seeks to minimise impact on other airspace users by identifying and selecting suitable launch windows of the minimum duration required; any shift in traffic patterns, due to the activation of the proposed airspace design for those short, notified periods would be the purview of EUROCONTROL Network Management.		
1			2. <u>Consultation Materials</u> , Slide 23 offers explanatory comment: "To assist stakeholders' understanding of Design Option 3, SaxaVord has included the diagrams that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". <u>Consultation Materials</u> , Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles.		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles. Whilst segmenting along radial bearings (i.e. trajectories) might favour SSO launches, such a methodology would not necessarily satisfy sub-orbital launch profiles. At this stage, the examples of airspace utilisation by individual launch profile can only be illustrative; the exact airspace requirement will be defined by		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles. Whilst segmenting along radial bearings (i.e. trajectories) might favour SSO launches, such a methodology would not necessarily satisfy sub-orbital launch profiles. At this stage, the examples of airspace utilisation by individual launch profile can only be illustrative; the exact airspace requirement will be defined by the individual launch operator's safety analysis and corresponding licence application. The proposed airspace reservation seeks to cater for both SSO and sub-orbital launch profiles. One could indeed posit that "Area Y" in Slide 26 might well be superfluous for the exemplar SSO launch, but, if not utilised, what benefit would Area Y be to the wider airspace network, with the remainder of the volume active for launch operations; moreover, the resultant shape would also be more complex. SaxaVord's aim is to offer an airspace reservation volume that meets the LV's specific requirements, while minimising impact and complexity on airspace users; ACP-2017-079 Full Options Appraisal, Page 3, Paras 12 and 13 (et al) and Consultation Materials, Slide 14, refer. Thus, the proposed design solution proffered at Stage 3 seeks to not only minimise potential impact, but also reduce complexity.		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles. Whilst segmenting along radial bearings (i.e. trajectories) might favour SSO launches, such a methodology would not necessarily satisfy sub-orbital launch profiles. At this stage, the examples of airspace utilisation by individual launch profile can only be illustrative; the exact airspace requirement will be defined by the individual launch operator's safety analysis and corresponding licence application. The proposed airspace reservation seeks to cater for both SSO and sub-orbital launch profiles. One could indeed posit that "Area Y" in Slide 26 might well be superfluous for the exemplar SSO launch, but, if not utilised, what benefit would Area Y be to the wider airspace network, with the remainder of the volume active for launch operations; moreover, the resultant shape would also be more complex. SaxaVord's aim is to offer an airspace reservation volume that meets the LV's specific requirements, while minimising impact and complexity on airspace users; ACP-2017-079 Full Options Appraisal, Page 3, Paras 12 and 13 (et al) and Consultation Materials, Slide 14, refer. Thus, the proposed design solution proffered at Stage 3 seeks to not only minimise potential impact, but also reduce complexity. 3. See response at Serial 2, above, which also responds to the supplementary email and PDF from NATS provided at Appendix 6.		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles. Whilst segmenting along radial bearings (i.e. trajectories) might favour SSO launches, such a methodology would not necessarily satisfy sub-orbital launch profiles. At this stage, the examples of airspace utilisation by individual launch profile can only be illustrative; the exact airspace requirement will be defined by the individual launch operator's safety analysis and corresponding licence application. The proposed airspace reservation seeks to cater for both SSO and sub-orbital launch profiles. One could indeed posit that "Area Y" in Slide 26 might well be superfluous for the exemplar SSO launch, but, if not utilised, what benefit would Area Y be to the wider airspace network, with the remainder of the volume active for launch operations; moreover, the resultant shape would also be more complex. SaxaVord's aim is to offer an airspace reservation volume that meets the LV's specific requirements, while minimising impact and complexity on airspace users; ACP-2017-079 Full Options Appraisal, Page 3, Paras 12 and 13 (et al) and Consultation Materials, Slide 14, refer. Thus, the proposed design solution proffered at Stage 3 seeks to not only minimise potential impact, but also reduce complexity.		
			that follow to offer illustrative segmentation for representative launch profiles to demonstrate how Design Option 3 might be tailored to provide a suitable launch area to accommodate a specific licenced LV and launch operation". Consultation Materials, Slide 25-32, offers further pictorial representation of exemplar airspace utilisation for different launch profiles. Whilst segmenting along radial bearings (i.e. trajectories) might favour SSO launches, such a methodology would not necessarily satisfy sub-orbital launch profiles. At this stage, the examples of airspace utilisation by individual launch profile can only be illustrative; the exact airspace requirement will be defined by the individual launch operator's safety analysis and corresponding licence application. The proposed airspace reservation seeks to cater for both SSO and sub-orbital launch profiles. One could indeed posit that "Area Y" in Slide 26 might well be superfluous for the exemplar SSO launch, but, if not utilised, what benefit would Area Y be to the wider airspace network, with the remainder of the volume active for launch operations; moreover, the resultant shape would also be more complex. SaxaVord's aim is to offer an airspace reservation volume that meets the LV's specific requirements, while minimising impact and complexity on airspace users; ACP-2017-079 Full Options Appraisal, Page 3, Paras 12 and 13 (et al) and Consultation Materials, Slide 14, refer. Thus, the proposed design solution proffered at Stage 3 seeks to not only minimise potential impact, but also reduce complexity. 3. See response at Serial 2, above, which also responds to the supplementary email and PDF from NATS provided at Appendix 6.		





ID16	Sponsor Categorisation, Assessment and Remarks/Comments (contd)	Sponsor's Remarks/Comments (contd)
		1. Notification and coordination procedures continue to be discussed between SaxyVord and the relevant parties. As is currently the case with already established airspace reservations (SIAs), we understand that the application of any temporal flight plan buffer zones is the purview of EUROCONTROL network management to ensure the safe and expedient flow of air traffic commensurate with the individual member states? Airspace Utilisation Plans. 2. The comment is acknowledged. CAP40 offers that "[lemporary singace estructures without substructures without be utilised by new entrents or commercial entities are dealt with on a case-by case basis whilst revised policy is direfed." SexaVord therefore exertise CAP4 decision and resultant policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate CAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate CAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate CAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate CAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate CAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate cAA the appropriate cAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate cAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate cAA decision and policy guidance. The subsequent buflet points may only be addressed upon receipt of the appropriate can be agreed. Such engagements with non-thing the appropriate and the policy and policy and the appropriate appropriate policy and the receivant policy guidance. The subsequent policy and the subsequent policy guidance and the subsequent p
		[Continued Overleaf]

^{3.} CAP740, Chapter 1, Para 1.14 (<u>online</u>) accessed on 27 Jun 23. 4. *ibid*. 5. *ibid*.







ID16		Sponsor Categorisation, Ass	essment	and Remarks	/Comments (contd)			Sponsor's Remarks/Comments (contd)		
							"computations associated with a more of conditions, ATM route loading and airline known airspace reservations and constration volume data will be passed to EUROCON 11. Noted; one could posit that the key as [proposed airspace design]". 12. Comment acknowledged. Currently, 2005	ed at the Full Options Appraisal, Paras 25-28, the rerouting methodology employed was not complex and acknowledged that e detailed analysis are too numerate and, undoubtedly, would be influenced by - inter alia - the prevailing meteorological nerouting policies/strategies. Similarly, "flights' routes would be planned on the ground, prior to departure, to accommodate straints across the whole route of the flights' routes". Subject to successful ACP progression beyond Stage 5, the airspace DNTROL to be input into the Network Management simulation. If assumption is that such flights "[] could adjust their flight profiles and schedules to deconflict with the activation of the lay, SaxaVord is in well progressed discussion and engagement with local SAR and air ambulance helicopter operators; the esponding access coordination procedures) are in train.		
ID17	Q1		Q2	Individual		Q3	Q4	Q5 Q6 N/A		
	Q7	Non-aviation stakeholder	Q8	Strongly disa	agree	Q9	Unst is directly under the route taken by a number of international flights during both daytime and night-time.			
	Q10	Lift the restrictions of access to	ft the restrictions of access to all parts of Lambaness.							
	Q11		ies work	he buildings and the restricted areas are being used for now and in the future. ork in, or own, each of the buildings. All communications should be via letters or communications should be via letters or to email especially in Linst.						
	Q13	No feedback.					Q14	More details of this permanent change given to the public - especially residents in Unst - via letter or meetings.		
	Q15	Strongly Object				Q16	Lambaness, formerly a wild headland, is bein damaged.	peing desecrated - its historic importance, geological structures, disruption to birds, uprooted of plant life, all already badly		
ID17	Sponso	or Categorisation, Assessment and	d Remark	ks/Comments						
	R	Response Might Impact Proposed Submission Impact	Design a		Response Does Not ACP	Impact		Sponsor's Remarks/Comments		
		'	<u> </u>		✓		Categorisation. Response does not impact the	t the ACP.		
							as highlighted in the consultation materials a Respondent's strong objection at Q15 and co	8&9 appears not to consider the overarching concept of safety by exclusion afforded by the proposed airspace reservations and options appraisal. comments at Q16 are focused on the planning and associated environmental impacts of the spaceport, as opposed to the		
							airspace design. There has been extensive public communication and engagement on this issue and the consultation was publicised widely through social media, print media, leaflet drops and local radio.			

Table 3 - ACP-2017-079 Stage 3 Stakeholder Full Responses







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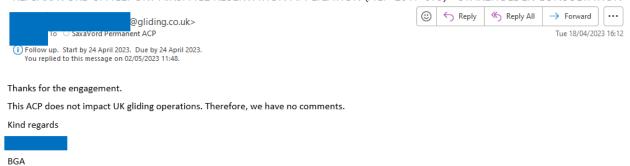


Appendix 6 to ACP-2017-079 Stage 3 Consultation Report Dated 13 Jul 23

ACP-2017-079 STAGE 3 STAKEHOLDER EMAIL RESPONSES

British Gliding Association

RE: SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CONSULTATION



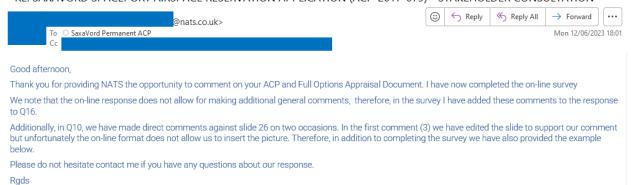
Response Might Impact Pr	Decrease Dece Not Impact ACD					
Impact	Response Does Not Impact ACP					
		✓				
	Sponsor's Remarks/Comments					
Categorisation. Response does not impact the ACP.						





NATS

RE: SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CONSULTATION

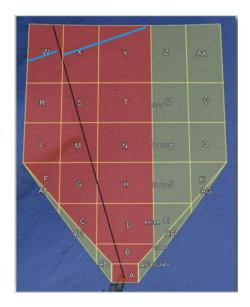


10. SaxaVord is keen to mitigate the impact of its operation on its stakeholders. What mitigations would you suggest that could ameliorate any concern(s) that you/your organisation might have?

Please comment on potential mitigation solutions that you/your organisation might have.

The orientation of the boxes also does not lend itself to activating minimum airspace as they as defined North-South. We believe that areas defined along trajectories would resolve this issue.

One of the examples given is shown below.



Response Might Impact Pr	Response Does Not Impact ACP				
Impact	Impact No Impact				
Sponsor's Remarks/Comments					
Categorisation. Response does not impact the ACP.					
See corresponding comments at Appendix 5, ID16.					





National Lighthouse Board

RE: [EXT] SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CONSULTATION



Dear Shetland Spacecentre Ltd,

Thank you for consulting with the Northern Lighthouse Board regarding the CAP1616 Stage 3 of the proposed air space change ACP-2017-079 in the area of SaxaVord Spaceport, Unst, Shetland.

Northern Lighthouse Board are supportive of the proposed activities and have forwarded your consultation request to our aircraft supplier (PDG Helicopters) to ensure we are appropriately represented.

We look forward to your Stage 4 stakeholder consultation in due course.

Please come back to me if you need further assistance in the meantime.

Best wishes,

Gillian

Official - Northern Lighthouse Board Email

Navigation Officer
NLB Navigation, 84 George Street, Edinburgh, EH2 3DA

Response Might Impact P	Response Does Not Impact ACP					
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	✓					
	Sponsor's Remarks/Comments					
Categorisation. Response does not impact the ACP.						





Nature Scotland



Response Might Impact Pr	Response Does Not Impact ACP					
Impact	Impact No Impact					
	Sponsor's Remarks/Comments					
Categorisation. Response does not impact the ACP.						





North Sea Transition Authority

RE: SAXAVORD SPACEPORT AIRSPACE RESERVATION APPLICATION (ACP-2017-079) - STAKEHOLDER CONSULTATION

NSTA Correspondence <correspondence@nstauthority.co.uk> To OsaxaVord Permanent ACP 1) Follow up. Start by 24 April 2023. Due by 24 April 2023.</correspondence@nstauthority.co.uk>	(a)	← Reply	≪ Reply All	→ Forward Mon 24/04/2023 16:39
Start your reply all with: Thank you for your confirmation. Confirmed, thank you. Great, thank you so much!	i Feedback			
Dear Sirs/Madams				
Thank you for your email to the North Sea Transition Authority of 18 April 2023.				
We can advise that we have nothing further to add to our previous email, of 6 September 2022.				
Kind regards				
North Sea Transition Authority				

Response Might Impact Pro	Response Does Not Impact ACP					
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		✓				
	Sponsor's Remarks/Comments					
Categorisation. Response does not impact the ACP.						







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