CAA Environmental Assessment and Statement

Title of airspace change proposal	Removal of En-Route Dependencies from the MCT DVOR
Change sponsor	NATS En-Route PLC (NERL)
Project no.	ACP-2020-018
Account Manager	
InstructionsIn providing a response for each question, please ensure that the 's• Yes• No• Partially• N/APlease highlight the 'status' cell for each question using one of the tresolvedGreenGreennot resolvedAmbernot compliantRed	
1. Introduction	
(ACP) for the removal of en-route references from the Manchester (MC beacon. NERL (the 'sponsor') has submitted plans for the progressive ra including the MCT DVOR. This proposal is not anticipated to alter traffic The MCT DVOR is located at Manchester Airport and the scope of this p Holds, which serve East Midlands Airport, Birmingham Airport and Man	patterns below 7,000 feet and is therefore scaled as Level 2C. roposal includes amendments to Standard Terminal Arrival Routes (STARs) and chester Airport. It is proposed to replicate the existing design of the STARs and ARs will be extended back ¹ to existing waypoints to provide flight plannable specification, any RNAV 5 aircraft unable to fly the RNAV1 replicated

¹ A process known as truncation

In summary, this proposal is seeking to:

Procedures with MCT Dependency

- Replicate and rename 3no. Birmingham STARs with a MCT dependency;
- Replicate, truncate² and rename 1no. Birmingham STAR with a MCT dependency;
- Replicate and rename 3no. East Midlands STARs with a MCT dependency;
- Replicate, truncate³ and rename 1no. East Midlands STAR with a MCT dependency;
- Replicate and rename 4no. Manchester STARs with a MCT dependency;
- Withdraw 1no. Manchester STAR with a MCT dependency;
- Replicate 1no. Manchester Hold with a MCT dependency;

Procedures without MCT Dependency

- Replicate and rename 1no. Manchester STAR without a MCT dependency;
- Withdraw 6no. Manchester STARs without MCT dependency;
- Withdraw 1no. Manchester Hold without MCT dependency; and
- Add an additional waypoint⁴ to 1no. Air Traffic Service (ATS) route which serves STARs for Birmingham, East Midlands and Manchester airports⁵.

Procedures for RNAV5 Aircraft

• For the 13 STARs set to be RNAV1 replicated as part this ACP, a series of ATS Routes/DCTs will be created that replicate the RNAV1 STAR to enable connectivity for RNAV5 aircraft.

2. Nature	e of the Proposed Change	Status
2.1	Is it clear how the proposed change will operate, and therefore what the likely environmental impacts will be?	No

² Truncation of this STAR will lead to 2 new STARs; however, this is not anticipated to change aircraft flight behaviour.

³ Truncation of this STAR will lead to 2 new STARs; however, this is not anticipated to change aircraft flight behaviour.

⁴ Adding an additional waypoint to ATS Route UL975 is not anticipated to change aircraft flight behaviour.

⁵ ATS Route UL975 serves the following STARs: CHASE 3H (Birmingham Airport), ROKUP 1G (East Midlands Airport) and ROSUN 1G (Manchester Airport)

	This ACP has been scaled as a Level 2C, therefore, in accordance with the Department for Transport's (DfT) altitude-be environmental priority is to reduce aircraft CO ₂ emissions in support of the objective to ensure that the aviation sector and cost-effective contribution towards reducing global emissions. Due to this being a Level 2C ACP only an assessme and there is no explicit requirement for the sponsor to assess other environmental aspects, including impacts on loca tranquillity, and biodiversity.	or makes a significant nt of CO ₂ is required
	This ACP concerns 23 procedures which need to be updated to allow the MCT DVOR to be decommissioned. The spor anticipate a change to flight behaviours and therefore predicts a neutral environmental impact as a result of this ACP.	
	However, it should be noted that the sponsor is proposing to introduce a new level restriction of FL250 ⁷ for the ROSU TILNI entry waypoint which could lead to an unintentional consequential change in aircraft behaviour. Currently aircraft arrive at Manchester Airport are required to be at FL230 by TILNI. Similarly, the sponsor is proposing to introduce an ROSUN Hold (an upper limit is not currently prescribed to this Hold) allowing aircraft to hold from FL70 – FL140. This is Manchester Airport traffic holding at ROSUN remain separated from the MIRSI hold; however, it is not clear from the the change to the ROSUN Hold will have an impact on flight behaviours. The CAA requested clarification from the Spo assertion that no changes to flight behaviour will occur, see the <u>Stage 5 Clarification Questions Summary</u> on the portastated that it is common practice for aircraft to be at FL250 at TILINI and based on 2019 data no aircraft held above FI Upper Limit of FL140 proposed for the ROSUN Hold was deemed appropriate by the sponsor to provide sufficient cap the CAA this statement does not confirm there will be no change in flight behaviour and therefore it is not clear how is change will operate, and therefore what the likely environmental impacts will be.	aft using this STAR to upper limit to the s to ensure submission whether nsor regarding the al. The sponsor L120, therefore, the acity. In a view of
	Additionally, regarding the impacted Birmingham Airport CHASE 4B / CHASE 3F / CHASE 3G /CHASE 3H STARS, the spo "the RNAV STAR slows aircraft down due to the speed limit on CHASE". Upon further clarification from the CAA the sp say that the airspeed will not change and therefore it is concluded that there will be no material impact on flight beha	onsor responded to
3. Secret	ary of State Call-in Noise Criterion	Status
3.1	Is the proposal likely to meet the Secretary of State's criterion for call-in on noise impacts? If yes, has the additional assessment on that criterion been undertaken and what are the results? If no, what is the rationale for that conclusion?	No

 ⁶ Department for Transport, Air Navigation Guidance 2017: Altitude-Based Priorities
 ⁷ FL250 is approximately equivalent to an altitude of 25,000ft at standard air pressure (1013 hPa).

	The criterion, as set out in the DfT's Air Navigation Guidance (2017) ⁸ is that the proposed airspace change could lead to a change in noise distribution resulting in a 10,000 net increase in the number of people subjected to a noise level of at least 54 dB ⁹ as well as having an identified adverse impact on health and quality of life. ¹⁰	
	The sponsor does not anticipate that the proposal will have any impact below 7,000ft above mean sea level (amsl). It i considered unlikely that the proposal would affect noise exposure above 54 dB L _{Aeq,16h} or have an identified adverse im quality of life.	
4. Sta	atement of Need	Status
4.1	Does the Statement of Need include any environmental factors?	Yes
	The sponsor states that options will be explored to improve the alignment of ATS Routes M16 and (U)L28 and, if considered will be re-designated as T420 which would allow for an <i>"improved climb profile for traffic climbing through FL245 north</i> of this route alignment has not been considered or addressed by the sponsor within the submission and therefore the the sponsor's stated need.	h of TNT". The viability
5. De	sign Principles	Status
5.1	Does the final set of Design Principles include any environmental objectives?	Yes
	The sponsor developed a set of five design principles (DPs), two of which are considered to include an environmental of	objective:
	• Design Principle 2 (DP2) No change to flight behaviours – This design principle seeks to ensure there are no ch	anges to actual flight
	 Design Principle 2 (DP2) No change to hight behaviours – This design principle seeks to ensure there are no change to hight behaviour, laterally, vertically or in dispersal. Therefore, this DP helps ensure that from the ground, aircraft are continue to behave as currently and therefore ground based environmental impacts are minimised, for examp quality, biodiversity, and tranquillity; and 	e perceived to

⁸ The DfT's call-in criteria are set out in The Civil Aviation Authority (Air Navigation) Directions 2017, Section 6, paragraph (5). These Directions are replicated in Annex D of the DfT's Air Navigation Guidance 2017,

⁹ L_{Aeq,16h} noise exposure.

¹⁰ The assessment of the number of people affected and the associated adverse impacts on health and quality of life of the airspace change proposal should be carried out by the sponsor in accordance with the requirements set out in DfT's Guidance.

5.2	Does the proposal explain how and to what extent the final airspace design achieves any environmental Design Principles?	
	The sponsor developed four options (including a do-nothing option) which were evaluated against the DPs at Stage 2. Option 2; "Examine the use of existing STARs and Holds from a practical point of view, re-evaluate how they are used and how the network may be improved by rationalising/truncating/replicating them in a considered manner", the proposed option, was evaluated by th sponsor to meet the two DPs with environmental objectives (DP2 and DP5 identified in Question 5.1).	e
	Options were evaluated to have met DP2 if "none of the proposed changes would result in a change to flight behaviour". It was considered that Option 2 met DP2 as there were "no practical change to connectivity therefore, no change to lateral/vertical track patterns". However, it is not clear from the submission how DP2 has been met for some procedures which propose a change to flight level restrictions (ROSUN 4D STAR) and holding altitudes (ROSUN Hold). The CAA requested an explanation regarding this to which NERL's response is provided in the <u>Stage 5 Clarification Questions Summary</u> . Considering NERL's response, it is considered that DP2 is not met as the introduction of the flight level restriction will impact all aircraft using the ROSUN 4D STAR. In addition, it is also not clear whether aircraft will hold above FL120 in the future when in the ROSUN Hold.	
	With regard to DP5, Options were evaluated to meet this DP by individually evaluating procedures for the "potential application of the DP, and minor changes are made, with justification provided". It was considered that Option 2 met DP5 as the "Design Option would evaluate current IFPs [Instrument Flight Procedure] and where appropriate, propose changes which would facilitate an optimised airspace design". The sponsor provided an example of how this is met by stating that the RNAV replication of a STAR an extension back to an existing waypoint would retain important descent planning restrictions. However, the sponsor does not explain how this would enable an environmental improvement and therefore it is considered that a full explanation regarding how Option 2 meets DP5 is not provided.	d
5.3	Were there any proposed environmental Design Principles that were rejected from the final set? If so, is the rationale for rejecting those Principles reasonable?No	
	The draft design principles included two design principles with environmental objectives (DP2 and DP5). Both draft environmental design principles were unchanged and therefore included within the final set of five design principles.	า
5.4	Were there any design options during the airspace change process that might have better met the environmental Design Principles than the final proposal as submitted to the CAA? If so, is the rationale for rejecting those options set out?	

	The sponsor developed a set of four Options (including the do-nothing option) and it is not possible to determine which the environmental design principles as in the view of the CAA, DP2 did not consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the consider all embedded criteria and DP5 was not provide the construction and DP5 was not prov	
6. Op	Options Appraisal Status	
6.1	Have environmental impacts been adequately reflected and assessed in the Options Appraisal?	No
	This ACP is assigned as a Level 2C, therefore in accordance with CAP1616 and the Department for Transport's (DfT) priorities, the environmental priority is to reduce aircraft CO ₂ emissions in support of the objective to ensure that the sector makes a significant and cost-effective contribution towards reducing global emissions. For a Level 2C change anticipated negative impact (i.e. an increase in fuel and CO ₂ emissions), the sponsor must undertake a quantitative the fuel and CO ₂ impacts using WebTAG. If the anticipated impact is positive, a qualitative assessment and explana Due to this being a Level 2C ACP, there is no explicit requirement for the sponsor to assess other environmental as impacts on local air quality, noise, tranquillity, and biodiversity.	the aviation with an assessment of tion is adequate.
	The anticipated fuel and CO ₂ impact has been assessed to be neutral (i.e. no change in fuel burn and CO ₂). It should however that the proposed changes to the ROSUN 4D STAR and the ROSUN Hold has potential to change fuel burn and The CAA requested an explanation regarding this to which NERL's response is provided on the <u>portal</u> . It is therefore the sponsor has not taken account of the <i>"environmental benefit"</i> quoted for the ROSUN 4D STAR within the Optio assessment. In addition, it is not apparent whether aircraft will hold above FL120 in the future, which could also im sponsor's conclusion of no change to fuel and CO ₂ emissions.	d CO₂ emissions. e considered that ons Appraisal
	In addition to the anticipated fuel and CO ₂ impacts, high-level statements regarding the environmental impacts of to option (Option 2) upon greenhouse gas emissions, local air quality and noise were provided within the Initial Option Stage 2. The following conclusion were made:	
	 For greenhouse gas emissions, the sponsor concludes "no impact" as there are "no changes to lateral or versitated above, the proposed changes to the ROSUN 4D STAR and the ROSUN Hold could impact upon fuel burn emissions, and hence other greenhouse gas emissions. NERL's response to the CAA's request to clarification is conducted undermine the greenhouse gas emissions assessment. It should be noted the level of analysis quoted by the s "monetise and quantify", however only a high-level qualitative assessment is provided. 	and CO ₂
	 For local air quality no conclusion is made by the sponsor; however, the sponsor does state "no changes be in the final submission states "no impact" upon local air quality. This conclusion is considered reasonable as not propose a to change flight behaviour below 1,000ft. As detailed in CAP1616 [page 171]; "due to the effective of the sponsor of the	s the ACP does

	 and dispersion, emissions from aircraft above 1,000 feet (amsl) are unlikely to have a significant impact on local air quality". For noise, the sponsor concludes "no impact" as there are "no changes to lateral or vertical tracks". 		
	The option appraisal does not consider the impact upon tranquillity or biodiversity; however, due to the ACP bein 2C these impacts do not require assessing. It is considered unlikely that any impacts upon tranquillity or biodivers this ACP does not propose to change flight behaviour or traffic patterns below 7,000 ft.	-	
6.2	Is the final proposal as submitted to the CAA the airspace design option that also produced the best environmental impacts as assessed by the Options Appraisal? If not, does the rationale for selecting the preferred option adequately explain this choice?	Yes	
	The sponsor developed a set of four options at Stage 2, however, none of the options were evaluated by the sponential benefits. Although not assessed by the sponsor within the Options Appraisal, it could be argued the option (Option 2); <i>"Examine the use of existing STARS and Holds from a practical point of view, re-evaluate how they of the network may be improved by rationalising/truncating/replicating/altering them in a considered manner"</i> , provides environmental impacts. This is due to the higher level restriction of FL250 for the ROSUN 4D STAR at the entry waypor sponsor's response to the CAA's request to clarification stating <i>"that aircraft are often coordinated above the exist FL230 for environmental benefit"</i> . The sponsor does not acknowledge this within the environmental assessment of the sponsor	nat the preferred are used and how the best int, TILNI, and the sting level of	
7. Nois	e [for Level 1 and Level M1 airspace change proposals]	Status	
7.1	Has the noise impact been adequately assessed and presented in both the consultation material and the final submission to the CAA, taking account of scalability and proportionality?	N/A	
	This ACP is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft. It has therefore been scaled as Level 2C meaning there is no requirement to assess noise. The sponsor has however provided a high-level statement regarding the impact upon noise, stating <i>"no impact"</i> .		
		-	
7.2		-	
7.2	<i>"no impact".</i> If a noise assessment has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale	ct upon noise, statin	
7.2	"no impact". If a noise assessment has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale reasonable?	ct upon noise, statir	

8. CO ₂	Emissions	Status
8.1	Has the impact on CO2 emissions been adequately assessed and presented in both the consultation material and the final submission to the CAA, taking account of scalability and proportionality?	Yes
	The sponsor has provided a high-level qualitative assessment of CO ₂ impacts which is considered proportionate for identified in Question 2.1 the sponsor did not consider the full impacts of the change and neglected to assess the im 4D STAR and ROSUN Hold. The sponsor's response to the CAA's request for clarification stated <i>"that aircraft are of above the existing level of FL230 for environmental benefit"</i> . The sponsor does not acknowledge this within the easessment for this ACP. It is considered that these changes will not result in any additional adverse impacts and give often coordinated above FL230 today for "environmental benefit" it is considered proportionate that the sponsor diften CO ₂ emissions assessment. As per CAP1616, for a Level 2C change with an anticipated negative impact (i. fuel and CO ₂ emissions), the sponsor must undertake a quantitative assessment of the fuel and CO ₂ impacts using W anticipated impact is positive, a qualitative assessment and explanation is adequate.	ppact of the ROSUN ten coordinated environmental ven that aircraft are id not provide a e. an increase in
8.2	If an assessment of the impact on CO2 emissions has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale reasonable?	Νο
	The sponsor has provided a high-level qualitative assessment of CO ₂ impacts which is considered proportionate for an ACP of nature. The sponsor did not however consider the full impacts of the change and neglected to assess the impact of the ROSUI and ROSUN Hold. Based on the sponsor's clarification response it is considered that the any changes will not result in any add adverse impacts.	
8.3	Summary of anticipated impact on CO2 emissions for the final proposed airspace change.	
	This ACP does not propose to impact upon flight behaviours, including adjacent IFPs; however, the sponsor does propose to change the vertical profile of the ROSUN 4D STAR and the ROSUN Hold which could result in an unintentional consequential impact to aircraft. Based on the sponsor's response to the CAA's request to clarification it is considered that these changes have potential to provide an environmental benefit and are unlikely to result in an increase in fuel burn and CO ₂ emissions.	
9. Loca	I Air Quality [for Level 1 and Level M1 airspace change proposals]	Status
9.1	Has the impact on Local Air Quality been adequately assessed and presented in both the consultation material and the final submission to the CAA, taking account of scalability and proportionality?	N/A
	This ACP is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft. It has therefore been sca meaning there is no requirement to assess local air quality.	led as Level 2C

9.2	If an assessment of the impact on Local Air Quality has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale reasonable?	N/A
	This ACP is scaled as Level 2C as it is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft; t no requirement for the sponsor to assesses the impact upon local air quality.	herefore, there is
9.3	Summary of anticipated impact on Local Air Quality for the final proposed airspace change.	
	This ACP is not anticipated change flight behaviour below 7,000 ft; therefore, there is not expected to be any impact under the provided and t	
10. Tran	quillity [for Level 1 and Level M1 airspace change proposals]	Status
10.1	With specific reference to Areas of Outstanding Natural Beauty and National Parks - Has the impact on tranquillity been adequately considered and presented in both the consultation material and the final submission to the CAA, taking account of scalability and proportionality?	N/A
	This ACP is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft. It has therefore been scaled as there is no requirement to assess the impacts upon tranquillity. The sponsor has however provided a high-level statem impact upon tranquillity, concluding "no impact".	•
10.2	If consideration of the impact on tranquillity has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale reasonable?	N/A
	This ACP is scaled as Level 2C as it is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft; there requirement for the sponsor to assesses the impact upon tranquillity.	fore, there is no
10.3	Summary of anticipated impact on tranquillity for the final proposed airspace change.	
	This ACP is unlikely to have an impact upon tranquillity, with specific reference to Areas of Outstanding Natural Beauty National Parks, as there are no proposed changes to flight behaviour below 7,000 ft.	y (AONBs) and
11. Bioc	iversity [for Level 1 and Level M1 airspace change proposals]	Status
11.1	Has the impact on biodiversity been adequately assessed and presented in both the consultation material and the final submission to the CAA, taking account of scalability and proportionality?	N/A

	This ACP is not anticipated to impact flight behaviour or traffic patterns below 7,000 ft. It has therefore been scaled as there is no requirement to assess the impacts upon biodiversity. As per CAP1616 [page 162] "Most airspace change pr to have an effect upon biodiversity and therefore the inclusion within the design principles is expected to be the full ext	oposals are unlikely
11.2	 consideration in most instances". If assessment of the impact on biodiversity has not been undertaken by the sponsor, has this decision been adequately explained and evidenced in both the consultation material and the final submission to the CAA, and is the rationale reasonable? 	N/A
	This ACP is scaled as Level 2C meaning there is no requirement to assess biodiversity. As per CAP1616, explicit conside assessment of biodiversity is only required where necessary.	ration and
11.3	Summary of anticipated impact on biodiversity for the final proposed airspace change.	
	This ACP is unlikely to have an impact upon biodiversity as there are no proposed changes to flight behaviour below 7, CAP1616 [page 162] "Most airspace change proposals are unlikely to have an effect upon biodiversity and therefore the the design principles is expected to be the full extent of any consideration in most instances".	•
12. Traff	ic Forecasts	Status
12.1	Have traffic forecasts been provided, are they reasonable, and have these been used to reflect the anticipated environmental impacts of the proposal?	No
	As this is a Level 2C change which is not anticipated to result in a negative impact there is no requirement for the spon quantitative assessments and therefore it is reasonable that no forecasts were provided.	sor to undertake
13. Cons	sultation	Status
13.1	Has the sponsor taken account of any environmental factors (noise, CO2 emissions, Local Air Quality, tranquillity, or biodiversity) raised by consultees or has evidence been provided to indicate why this has not been possible?	N/A
	No consultation was required as part of this ACP, therefore, no environmental factors were raised by consultees. It should be the National Air Traffic Management Advisory Committee (NATMAC) was consulted on the DVOR Rationalisation Programmers 2018, the CAA Manager Airspace Regulation agreed with the sponsor that no further consultation was required for incorationalisation ACPs where there were no changes to flight behaviour. However, a targeted stakeholder engagement equivalent and entry and ertaken with affected airports' ATC unit managers.	ramme in 2008. In lividual DVOR

13.2	Has the sponsor taken account of any consultation response submitted by ICCAN? If so, what are the outcomes?	N/A
	No consultation was required as part of this proposed airspace change and therefore ICCAN did not provide a consultat ACP.	ion response to th
14. Pub	lic Evidence Session (if held)	Status
14.1	If a Public Evidence Session has been held, was any new evidence on potential environmental impacts presented?	N/A
	A public evidence session was not held for this airspace change proposal.	
14.2	If so, was the new evidence relevant and material to the CAA's consideration of the environmental impacts of the submitted airspace change proposal?	N/A
	No public evidence session was held for this airspace change proposal.	
15. Com		Status
	No public evidence session was held for this airspace change proposal.	Status Yes
	No public evidence session was held for this airspace change proposal. pliance with policy and guidance from Government, ICCAN or the CAA Has the sponsor satisfied all relevant policy and/or guidance from either the Government, ICCAN or the	
15.1	No public evidence session was held for this airspace change proposal. opliance with policy and guidance from Government, ICCAN or the CAA Has the sponsor satisfied all relevant policy and/or guidance from either the Government, ICCAN or the CAA, with regards to environmental impacts of the proposed airspace change?	
15. Com 15.1 15.2	No public evidence session was held for this airspace change proposal. opliance with policy and guidance from Government, ICCAN or the CAA Has the sponsor satisfied all relevant policy and/or guidance from either the Government, ICCAN or the CAA, with regards to environmental impacts of the proposed airspace change? The sponsor has satisfied all relevant policy and guidance for an ACP of this nature.	Yes
15.1	No public evidence session was held for this airspace change proposal. Impliance with policy and guidance from Government, ICCAN or the CAA Has the sponsor satisfied all relevant policy and/or guidance from either the Government, ICCAN or the CAA, with regards to environmental impacts of the proposed airspace change? The sponsor has satisfied all relevant policy and guidance for an ACP of this nature. Has the sponsor adequately considered the DfT's Altitude-Based Priorities ¹¹ ? The sponsor has adequately considered the DfT's Altitude Based Priorities. This ACP is not anticipated to impact flight	Yes
15.1	No public evidence session was held for this airspace change proposal. Impliance with policy and guidance from Government, ICCAN or the CAA Has the sponsor satisfied all relevant policy and/or guidance from either the Government, ICCAN or the CAA, with regards to environmental impacts of the proposed airspace change? The sponsor has satisfied all relevant policy and guidance for an ACP of this nature. Has the sponsor adequately considered the DfT's Altitude-Based Priorities ¹¹ ? The sponsor has adequately considered the DfT's Altitude Based Priorities. This ACP is not anticipated to impact flight behaviour below 7,000 ft; therefore, the environmental priority is the reduction of CO ₂ as per Altitude-Based Priority D.	Yes

¹¹ Paragraph 3.3, DfT's Air Navigation Guidance 2017

17. Reco	ommendations/Conditions/PIR Data Requirements	Status
17.1	Are there any environmental recommendations which the change sponsor should address either before or after implementation?	No
	There are no recommendations that the sponsor should try to address either before or after implementation (if approved).	
17.2	Are there any environmental conditions which the change sponsor must fulfil either before or after implementation?	Νο
	There are no environmental conditions that the sponsor must fulfil either before or after implementation (if approved).	
17.3	Are there any environmental requirements in terms of the data to be collected by the change sponsor for the Post Implementation Review?	Yes
	For this ACP it is recommended that the sponsor starts to collect the following information from the date of implementation Implementation Review:	
• Monitor and assess flight numbers and behaviour before and after the change, to ensure there are no changes to flight behaviour;		s to traffic patterns or
	 Monitor and assess flight behaviours below 7,000ft to ensure there is no change; and 	
	• Engage with relevant airports to ensure that the proposal does not have an impact below 7,000ft.	

18. Summary of Assessment of Environmental Impacts & Conclusions

This ACP proposes to remove references to the MCT DVOR from 23 procedures in order to facilitate its rationalisation. This proposal is not anticipated to alter traffic patterns below 7,000 feet and is therefore scaled as a Level 2C. In accordance with the Department for Transport's (DfT) altitude-based priorities, for a Level 2C ACP the environmental priority is to reduce aircraft CO₂ emissions in support of the objective to ensure that the aviation sector makes a significant and cost effective contribution towards reducing global emissions. This proposal did not seek to reduce CO2 impacts. Due to this being a Level 2C ACP, there is no explicit requirement for the sponsor to assess other environmental aspects, including impacts on local air quality, noise, tranquillity, and biodiversity.

The sponsor's environmental assessment is based on there being no anticipated changes to actual flight behaviours; therefore, concluding a neutral environmental impact. From the submission, it is noted that there is potential for flight behaviours to change for the ROSUN 4D STAR, ROSUN Hold and

Birmingham CHASE STARs. The CAA requested further clarification from NERL regarding this point¹². Following NERL's response it is considered that any impacts as a result of these changes will be negligible and are unlikely to result in an adverse impact upon fuel burn and CO₂ emissions.

Environmental assessment and statement sign-off and approval					
		Name	Signat	ure	Date
Environmental assessment and statement completed by:			r		30/11/2021
Environmental assessment and statement reviewed by:			_	,	22/12/2021
Principal Airspace Regulator – Approval					
Name	Signature			Date	
				15/02/2022	

¹² CAA Stage 5 Clarification Questions Summary