CAA CAP 1616 Options Appraisal Assessment (Initial)

Title of airspace change propo	sal	St Athan ILS					
Change sponsor		Welsh Government					
Project no.		ACP-2018-35					
SARG project leader							
Case study commencement date	Click or tap to enter a date.	Case study report as at	Click or tap to enter a date.				
Account Manager	Engage & Consult	IFP	OGC				
Tech Regulator	Environmental	Economist	ATM				

Instructions: In providing a response for each question, please ensure that the 'status' column is completed using one of the following options:

yesnopartiallyn/a

To aid the SARG project leader's efficient project management, please highlight the "status" cell for each question using one of the four colours to illustrate if it is:

Resolved - GREEN

Not Resolved – AMBER

Not Compliant – RED

Not Applicable - GREY

Guidance

The broad principle of economic impact analysis is **proportionality**; is the level of analysis involved proportionate to the likely impact from that ACP? There are three broad levels of economic analysis; qualitative discussion, quantified through metrics, and monetised in £ terms. The more significant the impact, the greater should be the effort by sponsors to quantify and monetise the impact.

1. Background – Identifying the Do Nothing (DN) /Do Minimum (DM) and Do Something (DS) scenarios

1.1	Are the outcomes of DN/DM and DS scenarios clearly outlined in the proposal?									
1.1.1	Has the change sponsor produced an Options Appraisal (Phase I - Initial) which sets out how they have moved from the Statement of Need to the airspace change design options? [E12]									
1.1.2	Does the list of options include a description of the change proposal				Yes					
1.1.3	Has the sponsor stated on what criteria the longlist of options has been assessed?					Yes				
1.1.4	Where options have been discounted, does the change sponsor clearly set out why?					Yes				
1.1.5	Has the change sponsor indicated their preferred option in the Options Appraisal (Phase I - Initial)? [E12]					Yes				
1.1.6	Does the Initial Options Appraisal (Phase I - Initial) detail what evidence the change sponsor will collect, and how, to fill in any evidence gaps and how this will be used to develop the Options Appraisal (Phase II - Full)? Does the plan for evidence gathering cover all reasonable impacts of the change? [E12]									
Direct	impact on air traffic control					Status				
2.1	Are there direct cost impacts on air traffic control / management of the factors considered as	-		as been analyse	d.					
2.1.1	Examples of costs considered (please add costs that have been discuss any reasonable costs that the tech reg feels have NOT been addressed		Not applicable	Qualitative Assessment	Quantified	Monetised				
2.1.2	Infrastructure changes		Х							
2.1.3	Deployment		Х							
2.1.4	Day-to-day operational costs / workload / risks		N/A	X	N/A	N/A				
2.1.5	Other (provide details)		Х							

2.1.6	Comments									
	The Initial Options Appraisal submitted by the change sponsor states Option 1, which permanently withdraws St Athan ILS procedures, was expected to increase ATCO workload at NATS Cardiff, but according to the sponsor it would be unlikely to result in additional ATCO costs. According to the change sponsor's Initial Options Appraisal, fuel burn is predicted to be marginally greater and less predictable for Option 1 is which St Athan ILS procedures would be permanently withdrawn. It is further explained by the sponsor that without the ILS procedure, aircrawould be flying VFR with potential tactical ATC intervention.									
2.2	Are there direct beneficial impacts on air traffic cor	ntrol / management systems?								
	If so, please provide details and how they have bee	en addressed:								
2.2.1	ILS from St Athan as the SoN identifies that no change procedures previously published in the Mil AIP, nor to procedures. The sole aim of the sponsor with this airs approved St Athan ILS procedures in the UK AIP and to fair traffic control / management systems. In summidishenefits of the baseline scenario which are mention	p airspace structures or classification, no space change is to enable the publication herefore no benefits is projected for the ary, the benefit of the proposed option ned in 2.1.6.	or to operationa n of the extant (e proposed optic	l CAA- on in terms	Monetised					
2.2.1	Examples of benefits considered	Not applicable	Assessment	Quantified	ivionetised					
2.2.2	Reduced work-load	N/A	N/A	N/A	N/A					
2.2.3	Reduced complexity / risk	N/A	N/A	N/A	N/A					
2.2.4	Other (provide details)	N/A	N/A	N/A	N/A					
2.2.5	Details N/A	1								
2.3	Where monetised, what is the net monetised impa	ect on air traffic control (in net present	value) over the	project period?	,					

2.4	Are the direct impacts on air traffic management analysed accurately and proportionately?
	Please see the answer to Question 3.4.



3. Changes in air traffic movements / projections										
3.1	What is the impact of the ACP on the following and has it been a	addressed in the ACP pro	posal?							
		Not impacted / not applicable	Qualitative Assessment	Quantified	Monetised					
3.1.1	Number of aircraft movements	X	N/A	N/A	N/A					
3.1.2	Type of aircraft movement	Х	N/A	N/A	N/A					
3.1.3	Distance travelled	Х	N/A	N/A	N/A					
3.1.4	Area flown over / affected	Х	N/A	N/A	N/A					
3.1.5	Other impacts	Х	N/A	N/A	N/A					
3.1.6	Details N/A			•	•					
3.2	Has the forecasting of traffic done reasonably using best availab Academic sourcesetc?) Yes, please see the answer to Question 3.4.	le guidance (e.g. DfT We	bTAG, the Gree	n Book,						
3.3.	What is the impact of the above changes on the following factors?									
		Not impacted / not applicable	Qualitative Assessment	Quantified	Monetised					
3.3.1	Noise		Х							
3.3.2	Fuel Burn	Х	N/A	N/A	N/A					

3.3.4	Operational complexities for users of air space	Х	N/A	N/A	N/A			
3.3.5	Number of air passengers / cargo	Х	N/A	N/A	N/A			
3.3.6	Flight time savings / Delays	Х	N/A	N/A	N/A			
3.3.7	Other impacts	Х	N/A	N/A	N/A			
3.4	Are the traffic forecast and the associate impact analysed proportionately and accurately according to available guidelines (e.g. WebTAG or the Green Book?) The sponsor only provided the traffic movement figures over the 5-year period 2014-2018 because aircraft movements at St Athan are not planned to increase. Taking into account the sponsor is proposing the airspace change to maintain the stability in movements and predominant revenue stream for the airport, it can be concluded that the sponsor adopted a proportionate approach in terms of the impacts of the two options and complied with CAP1616 and The Green Book.							
3.5	What is the total monetised impact of 3.3? (Provide details) N/A							

4. Benefits of ACP								
4.1	Does the ACP impact refer to the following groups and how they are impacted by the ACP?							
		Quantified	Monetised					
4.1.1	Air Passengers	Х	Х	N/A	N/A			
4.1.2	Air Cargo Users	Х	Х	N/A	N/A			
4.1.3	General aviation users	Х	Х	N/A	N/A			
4.1.4	Airlines	Х	X	N/A	N/A			
4.1.5	Airports	Х	X	N/A	N/A			
4.1.6	Local communities	Х	X	N/A	N/A			
4.1.7	Wider Public / Economy	Х	Х	N/A	N/A			

4.1.8	Details										
	The change sponsor did carry out the qualitative assessment for the baseline option in which St Athan ILS procedures are permanently withdrawn. However, this option is already discounted but they followed this process in order to reflect the sort of costs that St Athan would be bound to in case they are obliged to permanently withdraw St Athan ILS procedures.										
	The qualitative assessment for the proposed option (Options 2) indicates that effective capacity and economic viability of the airport is maintained for the life of MRO operations at St Athan. It is also stated by the sponsor that Option 2 may lead to training and deployment costs due to minimal routine training for pilots, to ensure awareness of the new published procedures and costs associated with producing CAP1616 deliverables.										
4.2	How are the above groups impacted by the ACP, especially (but not e	xclusively) looking a	t the following	factors:							
		Not impacted / not applicable	Qualitative Assessment	Quantified	Monetised						
4.2.1	Improved journey time for customers of air travel	X									
4.2.2	Increase choice of frequency and destinations from airport	X									
4.2.3	Reduced price due to additional competition because of new capacity	Х									
4.2.4	Wider economic benefits		Х	N/A	N/A						
4.2.5	Other impacts	Х									
4.2.6	Details										
	The change sponsor specifically mentioned economic impact from increased Athan. It is stated that the significance of the economic benefits of St Athan is employment of 200 personnel on salaries well in excess of the local average f	n the area of South Wa	les should not be								
4.2	What is the according to a standard in the standard and A 2 standard in the st	aha			NI/A						
4.3	What is the overall monetised impacts associated with 4.1 and 4.2 the N/A	above?			N/A						
4.4	What are the non-monetised but quantified impacts of the above? (Ins	ert details of descrip	tion)								

The change sponsor provided the traffic movements for the last 5-year period in Step 1B Design Principles Issue 1 document where they explained that approximately 50% of St Athan aircraft movements are by UWAS and 25% by GA and the remainder by Military aircraft. The MRO movements comprise on average approximately 1% of total movements.

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	Year	UWAS	MRO	GA	Military	Heli	TOTAL
	2014	5,106	93	1,573	1,025	3,280	11,077
		46.1%	0.8%	14.2%	9.3%	29.6%	100%
	2015	4,852	118	1,815	791	571	8,147
		59.6%	1.4%	22.3%	9.7%	7.0%	100%
	2016	7,302	110	4,621	750	2,532	15,315
		47.7%	0.7%	30.2%	4.9%	16.5%	100%
	2017	7,464	41	4,670	659	2,200	15,034
		49.6%	0.3%	31.1%	4.4%	14.6%	100%
	2018	7,385	117	3,651	201	1,830	13,184
	Year	UWAS	MRO	GA	Military	Heli	TOTAL
		56.0%	0.9%	27.7%	1.5%	13.9%	100%
ľ	Average	6,422	96	3,266	685	2,083	12,551
	Average %	51.8%	0.8%	25.1%	6.0%	16.3%	100%
W	hat are th	e qualit	ative / s	trategic	impacts (describe	d above
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	hat is the	overall	monetis	ed bene	fits-costs	ratio (B	CR) of th
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5	Other aspects	
5.1	N/A	

6	Summary of Assessment of Economic Impacts & Conclusions							
6.1	Please see the answer in Question 2.2, 4.5.							
Outsta	Outstanding issues?							
Serial	Issue	Action required						
1								

CAA Options Appraisal Completed by	Name	Signature	Date
Airspace Regulator			12/07/2019
Economist			12/07/2019
Environmentalist			17/07/2019