LBHA 21 RNAV - INITIAL OPTIONS APPRAISAL - FULL ANALYSIS TABLE

LBHA 21 RN 71372 012 Appendix		FIONS APPRAISAL	FULL ANALYSIS TABLE							
Group Group	Mpact	Level of Analysis	Option 2A - Do Minimum (Baseline) - VOR/DME Replication from ALKIN (3 Deg)	Option 2AD - VOR/DME Replication direct from OSVEV (3 Deg)	Option 2B - VOR/DME Replication from ALKIN (3.2 Deg)	Option 2BD - VOR/DME Replication direct from OSVEV (3.2 Deg	Option 6A - OSVEV to FAF Left (3 Deg)	Option 68 - OSVEV to FAF Left (3.2 Deg)	Option 9 - MAP Do Minimum (MAP Baseline)	Option 12 - MAP, similar to proposed RWY 03 IAP
Communities	Noise impact on health and quality of life	Initial Options Appraisal: Qualitative		As this option replicates the exiting VOR/DME approach, there should be very little change to tracks flow, meaning that the	As this option replicates the exiting VOR/DME approach, there should be very little change to tracks flow, meaning that the	As this option replicates the exiting VOR/DME approach, there should be very little change to tracks flow, meaning that the	Option 6A is placed solely within existing ILS radar vectoring swathe in todays operation but is displaced from the baseline	Option 6B is placed solely within existing ILS radar vectoring swathe in todays operation but is displaced from the baseline	As this MAP option mimics the existing MAP from RWY 21 there will be a limited impact in terms of the disruption of aircraft	It is acknowledged that the track over the ground associated with this option is very similar to that in the
	quanty or life	Conditioning	dispersion of traffic and therefore noise will be relatively similar	dispersion of traffic and therefore noise will be relatively similar	dispersion of traffic and therefore noise will be relatively similar	dispersion of traffic and therefore noise will be relatively similar	scenario, towards the beginning of the procedure. Compared to	scenario, towards the beginning of the procedure. Compared to	noise. However, due to design regulation constraints, the	proposed RWY 03 IAP. However, when compared to the
			to todays operation. However, it is acknowledged that any aircraft arriving from the south would require radar vectoring to		acknowledged that any aircraft arriving from the south would	to todays operations and the baseline scenario. However, it is acknowledged that any aircraft arriving from the south would	the baseline scenario, there are more people overflown by this option, as Option 6A overflies areas that are more densely	the baseline scenario, there are more people overflown by this option, as Option 6B overflies areas that are more densely	protection areas will differ to the existing procedure. Furthermore, once the aircraft has reached ALKIN, the holding	MAP baseline scenario for this ACP, considerably more people are overflown as the track mileage is far greater. In
			return to ALKIN, as they do today (prior to the removal of the VOR).	vectoring to OSVEV, but this is also the case in todays operation. Consequently, this option creates no change in terms of noise	require radar vectoring to ALKIN, but this is the case today and in the baseline scenario. Additionally, this option introduces a	require radar vectoring to OSVEV, in the same way they do today. Additionally, this option introduces a slightly steeper (3.2	populated than the baseline scenario. However, it is worth noting that those individuals overflown by this option are	populated than the baseline scenario. However, it is worth noting that those individuals overflown by this option are	pattern will be slightly different to the extant procedure which may have a minor impact on noise dispersion. As this option	addition, compared to the baseline scenario, this would be new communities overflown.
				impact when compared to the baseline scenario.		Deg) approach, which means aircraft will be at a higher altitude for slightly longer, reducing the overall noise footprint compares	already overflown in todays operation.	already overflown in todays operation. On the other hand, as this option includes a slightly steeper GS angle (3.2 Deg), aircraft	relies on radar vectors from NATS ATCOs it cannot be guaranteed that aircraft would follow the same track along the	
					footprint compared to current operations and the baseline scenario.	to current operations and the baseline scenario.		will remain higher for longer, minimising the noise impact on communities further away from LBHA.	ground each time.	
Communities	Air Quality	Initial Options Appraisal:							As this MAP option mimics the existing MAP from RWY 21 there	
		Qualitative	are impacted when the aircraft is above 1,000ft. It is acknowledged that parts of Locksbottom and Farnborough are	are impacted when the aircraft is above 1,000ft. However, it is acknowledged that parts of Locksbottom and Farnborough are	are impacted when the aircraft is above 1,000ft. However, it is acknowledged that parts of Locksbottom and Farnborough are		are impacted when the aircraft is above 1,000ft. However, it is acknowledged that parts of Locksbottom and Farnborough are	are impacted when the aircraft is above 1,000ft. However, it is acknowledged that parts of Locksbottom and Farnborough are	will likely only be a very small impact in terms of local air quality, especially as the areas overflown by aircraft at less than	there will likely only be a very small impact in terms of local air quality, especially as the areas overflown by
			likely to be impacted as the aircraft will be at approximate 1,000 ft around 3 NM from touchdown. This will have the same impact		likely to be impacted as the aircraft will be at approximate 1,000 ft around 3 NM from touchdown. In addition, it is also	likely to be impacted as the aircraft will be at approximate 1,000 ft around 3 NM from touchdown. In addition, it is also	likely to be impacted as the aircraft will be at approximate 1,000 ft around 3 NM from touchdown. In addition, it is also	likely to be impacted as the aircraft will be at approximate 1,000 ft around 3 NM from touchdown. In addition, it is also	1,000ft are mainly all farmland to the west of Biggin Hill village. Providing this MAP option would mean that the dispersion of	aircraft at less than 1,000ft are mainly all farmland to the west of Biggin Hill village. On the other hand, due to
							acknowledged that this will involve the overflight of the Princess Royal University Hospital. Having said that, this is unavoidable			constraints imposed by surrounding airspace, aircraft on this option would be limited to 2,000ft. Providing this MA
			Hospital. Having said that, this is unavoidable to ensure a safe and stable approach is flown following the establishment of the	to ensure a safe and stable approach is flown following the	to ensure a safe and stable approach is flown following the establishment of the FAF. Please note, the location of the FAF	to ensure a safe and stable approach is flown following the establishment of the FAF. Please note, the location of the FAF	to ensure a safe and stable approach is flown following the establishment of the FAF. Please note, the location of the FAF	to ensure a safe and stable approach is flown following the establishment of the FAF. Please note, the location of the FAF	would overfly the eastern portion of the Croydon AQMA. Furthermore, by the time aircraft reach the Croydon AQMA, the	option would mean that the dispersion of aircraft carryin
			FAF, as per todays operations. Please note, the location of the	and associated flight path thereafter will remain the same as it	and associated flight path thereafter will remain the same as it	and associated flight path thereafter will remain the same as it	and associated flight path thereafter will remain the same as it	and associated flight path thereafter will remain the same as it	will likely be above 1,000 ft having no affect on local air quality	In addition, it is acknowledged that this option would
			FAF and associated flight path thereafter will remain the same as it is today.	is today and in the baseline scenario. So, when compared to the baseline scenario, this option creates no change in terms of air	is today and in the baseline scenario. So, when compared to the baseline scenario, this option creates no change in terms of air	is today and in the baseline scenario. So, when compared to the baseline scenario, this option creates no change in terms of air	is today and in the baseline scenario. So, when compared to the baseline scenario, this option creates no change in terms of air	is today and in the baseline scenario. So, when compared to the baseline scenario, this option creates no change in terms of air	(below 1,000ft) as per CAP1616.	overfly the eastern portion of the Croydon AQMA. Furthermore, by the time aircraft reach the Croydon
				quality.	quality.	quality.	quality.	quality.		AQMA, they will likely be above 1,000 ft having no affect on local air quality (below 1,000ft) as per CAP1616. To
										summaries, when compared to the MAP baseline scenario Option 12 has no additional impact on air quality.
Wider Society	Greenhouse Gas impact	Initial Options Appraisal:	As per the existing procedure, the majority of aircraft will leave		As per the existing procedure, the majority of aircraft will leave the network at OSVEV and be radar vectoring for a PBN	This option includes a more direct routing between OSVEV and	This option includes a more direct routing between OSVEV and	This option includes a more direct routing between OSVEV and	As this MAP option mimics the existing MAP from RWY 21 there	Compared to the MAP baseline scenario, Option 12 is far
		Qualitative	the network at OSVEV and be radar vectored for a PBN approach via ALKIN. This Option does not include a direct link from OSVEV	means that aircraft will start to procedure from OSVEV rather	approach via ALKIN. When compared to the baseline scenario,	ALKIN prior to establishing the FAF. This more direct routing means that aircraft will start to procedure from OSVEV rather	the FAF as it ignores ALKIN. However, the associated track mileage is similar to that of the baseline scenario, even when	the FAF as it ignores ALKIN. However, the associated track mileage is similar to that of the baseline scenario, even when	will be a limited impact in terms of CO2 emissions as it is designed to be the most practical MAP solution based on the	longer as it routes around Kenley airfield, laterally a long way to the west of LBHA. As a result, this option would
			to ALKIN, although aircraft would be effectively flying this anyway while being radar vectored to ALKIN. In terms of	than ALKIN, but effectively still fly the same track over the ground when compared to the baseline scenario. As a result,	this means there will be no change to tracks over the ground and therefore emissions will be the same as the baseline	than ALKIN, but effectively still fly the same track over the ground when compared to the baseline scenario. As a result,	considering the aircrafts transit from OSVEV.	considering the aircrafts transit from OSVEV.	applicable aircraft performance, airspace design and airspace capacity constraints. Therefore, the CO2 emissions associated	involve a significant increase in emissions in comparison t the MAP baseline scenario.
			emissions, this option will have no additional impact compared to todays operation.	this option has no additional impact on emissions.	scenario.	this option has no additional impact on emissions.			with this option would remain very similar to the current MAP and steps have been taken to minimise track mileage to as low	
Wider Society	Capacity and resilience	Initial Options Appraisal:	This option is seen as a more efficient way of managing airspace	This option is seen as a more efficient way of managing airspace	This option is seen as a more efficient way of managing airspace	This option is seen as a more efficient way of managing airspace	This option is seen as a more efficient way of managing airspace	This option is seen as a more efficient way of managing airspace	as practically possible.	This option has been designed as practical as possible to
	,	Qualitative	as aircraft transit from OSVEV to ALKIN and fly this more direct routing onto the FAF. There is no expected impact on capacity	as aircraft transit from OSVEV to ALKIN and fly this more direct	as aircraft transit from OSVEV to ALKIN and fly this more direct routing onto the FAF. There is no expected impact on capacity	as aircraft leave the network at OSVEV and fly this more direct routing to ALXIN and then onto the FAF. There is no expected	as aircraft leave the network at OSVEV and fly this more direct routing onto the FAF. There is no expected impact on capacity	as aircraft leave the network at OSVEV and fly this more direct routing onto the FAF. There is no expected impact on capacity	minimise interaction with the Gatwick CTA within the applicable	minimise interaction with the Gatwick CTA within the
			routing onto the FAF. There is no expected impact on capacity and resilience associated with this option.	routing onto the FAF. There is no expected impact on capacity and resilience associated with this option.	routing onto the FAF. There is no expected impact on capacity and resilience associated with this option.	routing to ALKIN and then onto the FAF. There is no expected impact on capacity and resilience associated with this option.	routing onto the FAF. There is no expected impact on capacity and resilience associated with this option.	routing onto the FAF. There is no expected impact on capacity and resilience associated with this option.	design constraints, therefore, there are no perceived impacts on capacity and resilience.	applicable design constraints, therefore, there are no perceived impacts on capacity and resilience.
Wider Society	Tranquillity	Initial Options Appraisal:	Any aircraft routing from the South or East of LBHA would likely		Any aircraft routing from the South or East of LBHA would likely		Any aircraft routing from the South or East of LBHA would likely			Like the existing MAP, this option routes to the west of
		Qualitative	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards ALKIN. As a result, it is	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards OSVEV. As a result, it is	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards ALKIN. As a result, it is	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards OSVEV. As a result, it is	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards OSVEV. As a result, it is	be required to fly over the Kent Downs AONB or Surrey Hills AONB whilst be vectored towards OSVEV. As a result, it is	avoiding overflying the Kent Downs AONB. Due to the south westerly direction of the runway, aircraft carrying out this MAP	LBHA avoiding overflying the Kent Downs AONB. Due to the south westerly direction of the runway, aircraft carrying
					deemed that the impact on the specified AONBs in out of scope of this ACP, as this overflight would occur prior to aircraft being		deemed that the impact on the specified AONBs in out of scope of this ACP, as this overflight would occur prior to aircraft being			out this MAP would likely fly in the close to the very northerly portion of the Surrey Hills AONB, but not over it
			established on this option and under the control of Thames Radar as opposed to LBHA.	established on this option and under the control of Thames Radar as opposed to LBHA.	established on this option and under the control of Thames Radar as opposed to LBHA.	established on this option and under the control of Thames Radar as opposed to LBHA.	established on this option and under the control of Thames Radar as opposed to LBHA.	established on this option and under the control of Thames Radar as opposed to LBHA.	aircraft performance and airspace design constraints. However, by this point, aircraft would likely be between 1,500ft and	This is unavoidable due to aircraft performance. However, by this point, aircraft would likely be between 1,500ft and
									2,000ft minimising the impact on this area.	2,000ft minimising the impact on this area.
und.	Produces Control	Law Love								
Wider Society	Biodiversity	Initial Options Appraisal: Qualitative	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve ground	impact upon biodiversity because they do not involve ground	In general, airspace change proposals are unlikely to have an impact upon biodiversity because they do not involve
			impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated with this option	ground based infrastructure. Hence, it is expected that there will be no impact in terms of biodiversity associated
			because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure.	because it does not involve the implementation or changing of ground infrastructure. However, it is acknowledged that	with this option because it does not involve the implementation or changing of ground infrastructure.
									marginal changes may have a very slight impact in terms of area: overflown below 1,000ft on a MAP, but these adjustments are	s However, it is acknowledged that marginal changes may have a very slight impact in terms of areas overflown
									very small, the same overall tracks will be flown.	below 1,000ft on a MAP, but these adjustments are very
										small, the same overall tracks will be flown.
General Aviation	Access	Initial Options Appraisal: Qualitative	There is no direct impact on access for general aviation associated with this option. It is also worth noting that this	There is no direct impact on access for general aviation associated with this option. It is also worth noting that this	There is no direct impact on access for general aviation associated with this option. It is also worth noting that this	There is no direct impact on access for general aviation associated with this option. It is also worth noting that this	There is no direct impact on access for general aviation associated with this option.	There is no direct impact on access for general aviation associated with this option.	It is acknowledged that this option requires aircraft to fly within the immediate vicinity of Kenley airfield and may have a very	further away from Kenley airfield and may have a very
			option mimics the situation today, therefore, there is no impact on GA access compared to todays operations.	option mimics the situation today, therefore, there is no impact on GA access compared to todays operations.	option mimics the situation today, therefore, there is no impact on GA access compared to todays operations.	option mimics the situation today, therefore, there is no impact on GA access compared to todays operations.			minor impact on gliding operations from this site. It must be highlighted that the expected frequency of the use of this MAP	minor impact on gliding operations in the immediate
									is very low, therefore, in reality the impact is expected to be minimal. A LOA/MOU could be used to mitigate the impact	expected frequency of the use of this MAP is very low, therefore, in reality the impact is expected to be minimal.
									further. It is also worth noting that this option mimics the situation today, therefore, there is no impact on GA access	It is acknowledged that this option will have less of an impact on Kenley airfield itself when compared to the MA
									situation today, therefore, there is no impact on GA access compared to todays operations.	baseline scenario, but will have a greater impact on gliding
										operations that take place further away from Kenley.
		Initial Options Appraisal:	There would be a very limited economic or capacity impact of	There would be a very limited economic or capacity impact of	There would be a very limited economic or capacity impact of	There would be a very limited economic or capacity impact of	There would be a very limited economic or capacity impact of	There would be a very limited economic or capacity impact of	There would be a very limited economic impact of this option.	There would be a very limited economic impact of this
commercial airlines	increased effective capacity	Qualitative	this option.	this option.	this option.	this option.	this option.	this option.		option.
General Aviation /	Fuel burn	Initial Options Appraisal:	As this option is a direct replication of what already exists, there	This option includes a more direct routing between OSVEV and		This option includes a more direct routing between OSVEV and		This option includes a more direct routing between OSVEV and	Although this may not be the most direct routing, this option	Compared to the MAP baseline scenario, Option 12 is far
commercial airlines		Qualitative	will be no additional impact in terms of fuel burn.	ALKIN prior to establishing the FAF. This more direct routing, with an overall track mileage of 15.38 NM, meaning it appears	appears to be shorter than Options 2A, 2AD and 2BD. However, it must be stressed that aircraft leaving the network at OSVEV	ALKIN prior to establishing the FAF. This more direct routing, with an overall track mileage of 15.08 NM, meaning it appears	the FAF, avoiding ALKIN. This more direct routing, with an overall track mileage of 13.87, reducing aircraft fuel burn and	the FAF, avoiding ALKIN. This more direct routing, with an overall track mileage of 13.87, reducing aircraft fuel burn and	mimics the existing MAP and aims to minimise fuel burn to as low as practically possible based on aircraft performance,	longer as it routes around Kenley airfield, laterally a long way to the west of LBHA. As a result, this option would
				longer than Options 2A and 2B although this is not the case (See Options 2A and B for details).	would be required to transit between OSVEV and ALKIN (as per Options 2AD and 2BD) prior to establishing on this procedure.	longer than Options 2A and 2B although this is not the case (See Options 2A and B for details).	emissions.	emissions.	airspace design and airspace capacity constraints. Furthermore, this option involves aircraft flying the procedure at 2,000 ft to	involve a significant increase in fuel burn when compared to the MAP baseline scenario.
					Therefore, in terms of track mileage and fuel burn, they effectively cancel each other out.				deconflict with other inbound traffic to Runway 21.	
Commercial airlines	Training costs	Initial Options Appraisal:	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this option.	There are no direct training costs associated with this
Commercial airlines		Qualitative Initial Options Appraisal:	There are no direct training costs associated with this option. There are no anticipated additional costs associated with this	There are no arrect training costs associated with this option. There are no anticipated additional costs associated with this	There are no anticipated additional costs associated with this option.	There are no arricipated additional costs associated with this option.	There are no anticipated additional costs associated with this option.	There are no anticipated additional costs associated with this option.	There are no anticipated additional costs associated with this	option. There are no anticipated additional costs associated with this
Airport / Air		Qualitative	option.	option.	option.	option.	option.	option.	option.	this option.
navigation service	Infrastructure costs	Initial Options Appraisal: Qualitative	by GNSS) are very low when compared to conventional	by GNSS) are very low when compared to conventional	The costs associated with RNP approach procedures (supported by GNSS) are very low when compared to conventional	by GNSS) are very low when compared to conventional	The costs associated with RNP approach procedures (supported by GNSS) are very low when compared to conventional	by GNSS) are very low when compared to conventional	by GNSS) are very low when compared to conventional	(supported by GNSS) are very low when compared to
provider									approaches, which require ground based navigation aids, f therefore, the cost of RNP procedures is lower due to the lack of	
			maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	maintenance and flight inspection. The only costs associated with the RNP approach would be the 5 yearly review.	lower due to the lack of maintenance and flight inspection. The only costs associated with the RNP approach would be
					Furthermore, despite the adjustment to 3.2 Deg GS (based on CAA acceptance of Heathrow trials), there is no perceived cost	Furthermore, despite the adjustment to 3.2 Deg GS (based on CAA acceptance of Heathrow trials), there is no perceived cost		Furthermore, despite the adjustment to 3.2 Deg GS (based on CAA acceptance of Heathrow trials), there is no perceived cost		the 5 yearly review.
					associated with increasing the glideslope.	associated with increasing the glideslope.		associated with increasing the glideslope.		
Airport / Air navigation service	Operational costs	Initial Options Appraisal: Qualitative	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.	There is no anticipated additional operational costs associated with this option.
provider										System.
Airport / Air	Deployment costs	Initial Options Appraisal:	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with this	There is no perceived deployment costs associated with
navigation service	.,,	Qualitative	option.	option.	option.	option.	option.	option.	option.	this option.
provider Safety Assessment	Safety Assessment	Initial Options Appraisal:	As this proposed option is a replication of the existing VOR/DME	As this proposed option is a replication of the existing VOR/DME	As this proposed option is a replication of the existing VOR/DME	As this proposed option is a replication of the existing VOR/DMB	No significant safety implications were identified during the	No significant safety implications were identified during the	No significant safety implications were identified during the	Through Hazard Identification, it has been assessed that
		Qualitative	approach, the only hazard identified with this option is the lack of radar vectoring between OSVEV and ALKIN, which is currently	outside the parameters that exist today. There are no specific	approach, the only hazard identified with this option is the lack of radar vectoring between OSVEV and ALKIN, which is currently	outside the parameters that exist today. There are no specific	safety assessment. Arriving aircraft will require a deconfliction service to be provided in respect to London City and London	safety assessment. Arriving aircraft will require a deconfliction service to be provided in respect to London City and London	safety assessment. Arriving aircraft will require a deconfliction service to be provided in respect to London City and London	this option would extend aircraft transit through Class G (uncontrolled) airspace, conflict with other IAP options an
			communications failure, this is unavailable, leading to an	safety risks associated with this option.	provided by NATS Thames Radar. However, in the event of a communications failure, this is unavailable, leading to an	safety risks associated with this option, this includes no additional risks posed by the adoption of a 3.2 Deg GS,	will mitigate any potential conflict between LBHA and gliding	will mitigate any potential conflict between LBHA and gliding	Gatwick traffic. An LOA/MOU between LBHA and Kenley airfield will mitigate any potential conflict between LBHA and gliding	conflict with Redhill traffic. Furthermore, this option woul have a knock-on effect for traffic at London City Airport
			increase in pilot workload. On the other hand, this can be mitigated through standard loss of communication procedures.		increase in pilot workload. On the other hand, this can be mitigated through standard loss of communication procedures.	supported by successful trials at London Heathrow.	operations at Kenley. It is acknowledged that this option	operations at Kenley. It is acknowledged that this option requires aircraft to enter the London City CTA, although it offers	operations at Kenley. Through Hazard Identification, it is	and the wider London airspace design. Therefore, overall, this option is deemed to be safe but does increase far
					In addition, there is no additional risks posed by the adoption of a 3.2 Deg GS, supported by successful trials at London Heathrow.	1		better separation than other options explored but it is still acknowledged that there is a potential of and infringement into	airfield, furthermore, this option may lead to an increase in pilo workload, which is to be expected in this situation.	
					ou, supported by societistic tridis at tuniquit restriction.		the London City CTA/CTR if not managed correctly.	the London City CTA/CTR if not managed correctly.	, which is to be expected in this situation.	
		Summary of Analys	is Option 2A acts as the 'Do Minimum' baseline scenario for this	This option involving both OSVEV and ALKIN provides a more	This option laterally mimics the existing procedure and efficient	This option involving both OSVEV and ALKIN provides a more	This option provides a more logical routing between OSVEV and	This option provides a more logical routing between OSVEV and	Option 9 mimics the existing MAP but also takes into account	Option 12 was added following a Stakeholder Focus Grou
			assessment. This option is a replication of the existing procedure and is efficient in terms of fuel burn and emissions.	FAF. As this option is a replication of the existing approach,	in terms of fuel burn and emissions. Furthermore, as this option replicates the existing procedure, there is a very minimal impact	FAF. As this option is a replication of the existing approach,	are effectively the same when compared to the baseline	the FAF, avoiding ALKIN. Track mileage, fuel burn and emissions are effectively the same when compared to the baseline	aircraft performance and airspace design constraints and aims to minimise impact on the Gatwick CTA, however it is	held on 15th April 2021. The option entails laterally mimicking the proposed IAP for RWY 03. However, this
1			Furthermore, as this option replicates the existing procedure, there is a very minimal impact in terms of noise, tranquillity,	there is very little additional impact in terms of noise, air quality, emissions, tranquillity, biodiversity, commercial	in terms of noise, tranquillity, biodiversity and air quality compared to todays operations. Option 2B also includes a 3.2	there is very little additional impact in terms of air quality, emissions, tranquillity, biodiversity, commercial aviation,	scenario. It is worth noting that a more densely populated area will be overflown as a result of this option, however, as it is	scenario. It is worth noting that a more densely populated area will be overflown as a result of this option, however, as it is	acknowledged that aircraft would fly slightly nearer to Kenley airfield than the conventual MAP (Option 8). As an aircraft	means compared to both the existing MAP and the MAP baseline scenario, it is significantly longer, resulting in
			biodiversity and air quality compared to todays operations. Option 2A provides a more structured approach for LBHA	aviation, general aviation or airport/ANSPs in comparison to existing operations. The added benefit of this option compared	Deg glideslope, meaning aircraft are higher for longer, minimising noise impact on local communities, making it more	general aviation or airport/ANSPs in comparison to the baseline scenario. The added benefit of this option compared to the	contained within the current ILS swathe, this area is already overflown by traffic exiting the network at OSVEV. It must also	contained within the current ILS swathe, this area is already overflown by traffic exiting the network at OSVEV. It must also	initially departs LBHA on this MAP, a very limited number of populated areas will be overflown below 1,000ft initially while	greater fuel burn and emissions. Additionally, new communities would be overflown (when compared to the
			arrivals when compared to todays operations, following the	to existing procedures is the reduced track mileage between	favourable than the baseline scenario. From a safety	baseline scenario, is the 3.2 Deg glideslope included, making it	be acknowledged that this procedure is safe, but coordination	be acknowledged that this procedure is safe, but coordination	populated areas will be overflown below 1,000ft limits while the remainder of the procedure is based on 2,000ft. Care has been taken to minimise fuel burn and emissions within the	existing MAP and the MAP baseline scenario) meaning a greater impact in terms of aircraft noise.
			removal of the VOR. From a safety perspective, mitigations are in place for the failure of communications with Thames Radar as	OSVEV and ALKIN, further reducing fuel burn and emissions. From a safety perspective, mitigations are in place for the failure	perspective, mitigations are in place for the failure of communications with Thames Radar as the aircraft is radar	more favourable in terms of noise. From a safety perspective, mitigations are in place for the failure of communications with	with London City may be required.	with London City may be required.	been taken to minimise fuel burn and emissions within the defined airspace design constraints.	greater impact in terms or aircraft noise.
1			the aircraft is radar vectored from OSVEV to ALKIN to begin the approach.	of communications with Thames Radar as the aircraft is radar vectored from OSVEV to ALKIN to begin the approach.	vectored from OSVEV to ALKIN to begin the approach.	Thames Radar as the aircraft is radar vectored from OSVEV to ALKIN to begin the approach.				
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