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14. Aviation and Telecommunications

14.1 Introduction

- 14.1.1 Aviation radar, microwave and other electromagnetic signals are transmitted throughout the country by a wide range of operators, including statutory agencies and commercial companies. There is potential for interference to affect the transmission of these signals from any large structure, including wind turbines. To understand the potential of the Trecelyn Wind Farm scheme ('the Proposed Development') to affect radar, microwave and other radio operations in the area, consultation has been undertaken with authorities and companies working in this field in Wales.
- 14.1.2 This chapter presents the assessment of the likely significant effects of the Proposed Development with respect to Aviation and Telecommunications. The assessment is based on information obtained to date. It should be read in conjunction with the Project description provided in **Chapter 4: Description of the Proposed Development**.
- 14.1.3 This chapter describes:
 - the legislation, policy and technical guidance that has informed the assessment (Section 14.2);
 - consultation and engagement that has been undertaken and how comments from consultees relating to Aviation and Telecommunications have been addressed (Section 14.3);
 - the methods used for baseline data gathering (Section 14.4);
 - overall baseline (Section 14.5);
 - embedded measures relevant to Aviation and Telecommunications (Section 14.6);
 - the scope of the assessment for Aviation and Telecommunications (Section 14.6);
 - the methods used for the assessment (Section 14.7);
 - the assessment of Aviation and Telecommunications effects (Section 14.8);
 - assessment of cumulative (inter-project) effects (Section 14.9);
 - a summary of the significance conclusions (Section 14.10); and
 - further work to be undertaken (Section 14.11).

Limitations and assumptions

- 14.1.4 Some service providers have not responded to the consultations. Generally, where consultees do not respond, it is presumed their services would be unaffected by the Proposed Development. Refer to **Table 14.6** for list of consultees.
- 14.1.5 Given the above, there is the possibility that the consultation process has not picked up some services. However, the process has been as inclusive as possible.

14.2 Relevant legislation, planning policy and technical guidance

14.2.1 This section identifies the legislation, planning policy and technical guidance that has informed the assessment of effects with respect to Aviation and Telecommunications. Further information on policies relevant to the Proposed Development is provided in **Chapter 5: Legislation and policy overview**.

Planning and legislative context

Aviation

14.2.2 A summary of the national and local planning policy of relevance to Aviation is given in **Table 14.1**.

Policy	Policy context		
National planning policy			
Future Wales: the National Plan 2040 ¹	This states: "Policy 18 – Renewable and Low Carbon Energy Developments of National Significance 8. there are no unacceptable impacts on the operations of defence facilities and operations (including aviation and radar) or the Mid Wales Low Flying Tactical Training Area (TTA-7T);"		
Technical Advice Note (TAN) 8: Planning for Renewable Energy (2005) ² (revoked however used as a guide for this assessment)	Paragraph 2.35 states: "Developments within a specified radius of major airports and aerodromes are subject to mandatory consultation with the Civil Aviation Authority (CAA) and/or the Ministry of Defence (MoD) under the Town and Country Planning (Aerodromes and Technical Sites) Directive 1992. The CAA will inform the applicant of any civilian airfields that are likely to be affected, but it is the responsibility of the applicant/ planning authority to consult the airfield management at the airfield in question."		
	Paragraph 2.36 states: "Lights are only required on structures that are over 150 m high." Paragraph 2.38 states: "Any large structure is liable to show up on radar, but wind turbines can present a particular problem as they can be interpreted by radar as a moving object, which is only intermittently seen (as the nacelle rotates to face the wind). There is a consultation zone and an advisory zone around every civilian and military air traffic radar, but objections may sometimes be raised in respect of developments further afield. Consultations are also required in respect of other defence and meteorological radar. Developers		

Table 14.1 Planning policy relevant to the Aviation assessment

¹ Welsh Government (2021). Future Wales: the national plan 2040. (Online) Available at: <u>https://gov.wales/future-wales-national-plan-2040</u> (Accessed September 2023).

² Geography & Technology, Welsh Government (2005). Technical Advice Note (TAN) 8: Planning for Renewable Energy. (Online) Available at: <u>https://apps.caerphilly.gov.uk/LDP/Examination/PDF/W66-TAN-8-Renewable-Energy.pdf</u> (Accessed September 2023).

Policy	Policy context		
	British Wind Energy Association web site gives details of how this can be achieved. Local planning authorities should be aware of the statutory consultees applicable to their particular area."		
	Paragraph 2.39 gives a list of aviation (amongst other) consultees in addition to statutory consultees. The aviation consultees referred to are: The Civil Aviation Authority (CAA), the Ministry of Defence (MoD), and National Air Traffic Services (NATS).		
Local planning policy			
Caerphilly County Borough Local Development Plan up to 2021 ³	With respect to Aviation, there is no content.		

Technical guidance

14.2.3 A summary of the technical guidance for Aviation is given in **Table 14.2**.

Technical guidance document	Context
CAP 168 – Licensing of Aerodromes ⁴	Chapter 4 – The Assessment and Treatment of Obstacles, Paragraph 1.1, states: "The effective utilisation of an aerodrome may be considerably influenced by natural features and man-made constructions inside and outside its boundary. These may result in limitations on the distance available for take-off and landing and on the range of meteorological conditions in which take-off and landing can be undertaken. For these reasons certain areas of the local airspace must be regarded as integral parts of the aerodrome environment. The degree of freedom from obstacles in these areas is as important to the granting and retention of an aerodrome license as the more obvious physical requirements of the runways and their associated runways strips".
CAP 670 – Air Traffic Services Safety Requirements ⁵	Part B, Section 4, GEN 01, sub-section 3: "Windfarms need to be considered as a safeguarding activity. The ATS [Air Traffic Service] Provider is responsible for ensuring, as far as is reasonably practicable, that such development does not impact on the safety of the ATS environment. The ATS Provider is responsible for deciding whether or not it can accept any degradation to the ATS environment. If the ATS Provider predicts that the degradation is unacceptable then it should make representations to the appropriate Local Authority.

Table 14.2 Technical guidance relevant to the Aviation assessment

³ Caerphilly County Borough Local Development Plan up to 2021 (adopted 2010) (Online) Available at: <u>https://www.caerphilly.gov.uk/caerphillydocs/ldp/written-statement.aspx</u> (Accessed September 2023).

⁴ Civil Aviation Authority (2022). Licensing of Aerodromes. CAP 168. (Online) Available at:

https://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=6114 (Accessed September 2023). ⁵ Civil Aviation Authority (2019). Air Traffic Services Safety Requirements. CAP 670. (Online) Available at:

https://publicapps.caa.co.uk/docs/33/CAP670%20Issue3%20Am%201%202019(p).pdf (Accessed September 2023).

Technical guidance document	Context
	The CAA does not have the power to veto Windfarm development (other than on the land actually owned by the CAA). The ATS provider is responsible for mitigating against any deterioration to the Air Traffic Services caused by wind farms".
CAP 738 – Safeguarding of Aerodromes ⁶	Chapter 1 – Safeguarding of Aerodromes, Paragraph 1.1, states: "A process of consultation between a Local Planning Authority (LPA) and consultees, which is made obligatory by Statutory Direction, safeguards some aerodromes and aeronautical technical sites in the United Kingdom. This is called 'statutory' or 'official' safeguarding'.
CAP 764 – CAA Policy and Guidelines on Wind Turbines ⁷	Chapter 3 – Safeguarding Considerations, Paragraph 1a, states: "Developers will be referred to the aerodrome licensee of aerodromes with a surveillance radar facility within 30km of the proposed wind turbine development or to the distance specified by the aerodrome or indicated on the aerodromes published wind turbine consultation map".
Planning Circular 2/2003 Safeguarding of Aerodromes, Technical Sites and Military Explosive Storage Areas ⁸	Planning Circular 2/2003 sets out criteria outlining how planning authorities must consult with aviation Consultees and which processes they must follow in order to ensure that Consultee responses to proposals are taken into account. Where planning authorities are minded to award planning permission against the advice of NATS, the CAA (Civil Aviation Authority) or the MOD, they are obliged to inform Welsh Ministers.

Telecommunications

14.2.4 A summary of the national and local planning policy of relevance to Telecommunications is given in **Table 14.3.**

Table 14.3 Planning policy relevant to the Telecommunications assessment

Policy	Policy context	
National planning policy		
Future Wales: The National Plan 2040 ¹	This states: "Policy 18 – Renewable and Low Carbon Energy Developments of National Significance 7. there are no unacceptable adverse impacts by way of shadow flicker, noise, reflected light, air quality or electromagnetic disturbance;"	

https://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=576 (Accessed September 2023). ⁷ Civil Aviation Authority (2016). CAA Policy and Guidelines on Wind Turbines. CAP 764. (Online) Available at: https://publicapps.caa.co.uk/docs/33/CAP764%20Issue6%20FINAL%20Feb.pdf (Accessed September 2023).

⁶ Civil Aviation Authority (2020). Safeguarding of Aerodromes. CAP 738. (Online) Available at:

 ⁸ Scottish Government (2003). Planning Circular 2/2003: Town and Country Planning (Safeguarded Aerodromes, Technical Sites and Military Explosives Storage Areas) (Scotland) Direction 2003. (Online) Available at:

https://www.gov.scot/publications/planning-circular-2-2003-scottish-planning-series-town-country-planning/ (Accessed September 2023).

Policy	Policy context
Technical Advice Note 8: Planning for Renewable Energy ² (TAN8) Paras 2.29- 2.30 (revoked however used as a guide for this assessment)	TAN 8 states: "A wind turbine can interfere with electromagnetic transmissions in two ways – by emitting an electromagnetic signal itself, and by interfering with other electromagnetic signals. Provided careful attention is paid to siting, wind turbines should not cause any significant problems of electromagnetic interference, i.e. adverse effects on communication systems which use electromagnetic waves as the transmission medium (e.g. television, radio or microwave links). Specialist organisations responsible for the operation of the electromagnetic links typically require a 100m clearance either side of a line of sight link from the swept area of turbine blades." The document goes on to recommend a list of possible consultees referring to the Office of Communication operators in the UK and acts as a central point of contact for identifying specific consultees relevant to a site. It does recognise that this list is not exhaustive and that it may be necessary to consult local utility companies and emergency services along with any other organisations which may be deemed relevant.
Local planning policy	
Caerphilly County Borough Local Development Plan up to 2021 ⁹	With respect to Telecommunications, there is no content.

Technical guidance

14.2.5 A summary of the technical guidance for Telecommunications is given in **Table 14.4**.

Table 14.4	Technical guidance relevant to the Telecommunications assessment
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Technical guidance document	Context
Practice Guidance – Planning Implications of Renewable and Low Carbon Energy. ¹⁰ Welsh Assembly Government (2011). Para 3.4.24-3.4.26	The assessment will take due cognisance of the following paragraphs from the guidance document: "Wind turbines, including micro turbines, can also interfere with telecommunications (i.e., TV, radio and phone signals) by blocking or deflecting those requiring line of sight or by the scattering of transmission signals. Links crossing the site of wind farms should be identified by consultation with Ofcom. Ofcom will check whether any part of a wind turbine site, either individual turbines or part of a wind farm, falls within 0.5 – 1.0km (depending on the signal frequency) of the path of a fixed link, and if so, will instruct the developer to contact the appropriate fixed link operator. Developers may also wish to contact interested bodies directly, including local utility companies and emergency services. Scattering of signals mainly affects domestic TV (both analogue and to a lesser extent digital TV) and radio broadcasts. Wind turbines. Terrestrial

 ⁹ Caerphilly County Borough Local Development Plan up to 2021 (adopted 2010) (Online) Available at: <u>https://www.caerphilly.gov.uk/caerphillydocs/ldp/written-statement.aspx</u> (Accessed September 2023).
 ¹⁰ Welsh Assembly Government (2011). Practice Guidance – Planning Implications of Renewable and Low Carbon Energy. (Online) Available at: <u>https://gov.wales/sites/default/files/publications/2018-09/planning-implications-renewablelow-carbon-energy-development.pdf</u> (Accessed February 2023).

Technical guidance document	Context
	television transmissions for domestic reception within the UK are the joint responsibility of the BBC and Ofcom. Where fixed link signals are potentially blocked by proposed wind turbines, a detailed investigation of the likely impact should be sought from a competent supplier. It is often possible to mitigate impacts by careful siting of individual turbines within a site so that turbine blades avoid a buffer zone, typically 100m either side of the signal path. Failing this, it may be necessary for the developer to pay for a signal to be re- routed around the wind turbine(s). Where site investigations reveal a likely impact on domestic radio or TV reception, various solutions are possible including upgrading of domestic aerials or delivery of the signal by other means, for example by cable."

14.3 Consultation and engagement

Overview

14.3.1 The assessment has been informed by consultation responses and ongoing stakeholder engagement. An overview of the approach to consultation is provided in Section 2.4 of Chapter 2: Approach to Environmental Impact Assessment.

Scoping Direction

14.3.2 A Scoping Direction was issued by Planning and Environment Decisions Wales (PEDW, formerly Planning Inspectorate Wales), on behalf of the Welsh Ministers, on 02 December 2022. A summary of the relevant responses received in the Scoping Direction in relation to Aviation and Telecommunications and confirmation of how these have been addressed within the assessment to date is presented in **Table 14.5**.

Table 14.5Summary of EIA Scoping Direction responses for Aviation and
Telecommunications

Consultee	Consideration	How addressed in this ES
PEDW	The applicant is advised to contact NATS Safeguarding, Cardiff & Bristol Airports to ensure that the proposal would not negatively impact upon the current operations. Following on from consultation with NATS, there may be a requirement to include elements within the ES.	An aviation consultant has undertaken analysis and is consulting with NATS/Cardiff Airport/Bristol Airport as to appropriate mitigation, see Table 14.6.
	Telecommunications and Broadcast Services	The consultation has been undertaken with relevant non-statutory consultees, i.e., operators who may be concerned that the proposal could affect their services, see Table 14.6.

Technical engagement

Technical engagement with consultees in relation to Aviation and Telecommunications is 14.3.3 ongoing. A summary of the technical engagement undertaken to date is outlined in Table **14.6**.

Table 14.6 Technical engagement on the Aviation and Telecommunications assessment

Issue raised	Consultee	Consideration	How addressed in this ES
Telecommunications	BT	Consulted as part of exercise.	Responded with no objection.
	Joint Radio Coordination (JRC)	Consulted as part of exercise.	No response, to date, however with two links that they manage (the WPD links) close to the site a response is expected.
	MLL Telecom	Consulted as part of exercise.	Responded with no objection.
	CSS Spectrum Management Services Ltd	Consulted as part of exercise.	No response, however, they notified that they had passed on the request to their team that covers Wales.
	Ofcom	Reviewed Ofcom Spectrum Information System ¹¹ to identify potential affected links.	Two links were identified that run close to the Site and the relevant operators were consulted: WPD/JRC
	Mobile Broadband Network Limited (EE and 3UK)	Consulted as part of exercise.	Responded with no objection.
	Telefonica / O2	Not consulted as not identified by Ofcom Spectrum Information System.	-
	Vodafone	Consulted as part of exercise.	Responded with no objection.
	Arqiva	Consulted as part of exercise.	Responded with no objection.
	Airwave Solutions Limited	Consulted as part of exercise.	No response.
	Met Office	Reviewed the Met Office Safeguarding maps. The development is not sited within any of their meteorological	No action required.

¹¹ Ofcom (2023). Spectrum Information System (Online) Available at: <u>https://www.ofcom.org.uk/spectrum/information/spectrum-information-system-sis</u> (Accessed September 2023).

Issue raised	Consultee	Consideration	How addressed in this ES
		radio facilities safeguarding areas. ¹²	
Radar and Aviation Safeguarding	Ministry of Defence (MoD) (MoD queries are handled by the Defence Infrastructure Organisation (DIO))	WSP commissioned a review by an independent aviation consultant, Wind Farm Aviation Safeguarding (WFAS). Their analysis has shown that there would be no impact to MoD infrastructure, see Appendix 14A).	 They have determined the following: MoD ATC Radar – no radars affected MoD Low Flying – the site is in a Green area and an MoD low flying objection is extremely unlikely MoD Air Defence Radar – none affected Met Office Radar – none affected Met Office Radar – none affected With turbines close to 150 metres to tip there likely will be a requirement to illuminate them with medium intensity red obstruction lights on the nacelle. There is also the requirement to provide IR lighting for the MoD. There is also a requirement for mid mast lights, halfway up the tower. These are low intensity red lights but are very poorly designed and often have a greater visual impact than the hub lights, therefore as part of mitigation agreement discussion, where feasible WFAS would look to negotiate this requirement with the CAA.
	Civil Aviation Authority (CAA)	Consulted as part of exercise.	No response.
	NATS En Route Plc ("NERL") / NATS	As part of the WFAS review they analysed NATS Enroute infrastructure and found there may be impacts on their Clee Hill radar. Also, as part of scoping NATS responded stating: <i>"Turbines of the size proposed are detectable from the en- route radar at Clee Hill</i>	As part of the WFAS analysis they modelled the potential visibility of the Site on the radar and confirmed that the turbines could be visible to the radar. (see Appendix 14A). Therefore, WFAS are discussing with NATS the impact and any potential

¹² Met Office (2023). Safeguarding Maps (Online) Available at: <u>https://www.metoffice.gov.uk/services/business-industry/energy/safeguarding</u> (Accessed September 2023).

Issue raised	Consultee	Consideration	How addressed in this ES
		although this is restricted to the northern parcel of land, NATS should be consulted once more detail is available."	mitigation options that could be required.
	Cardiff Airport and Bristol Airport	NATS responded to scoping on the behalf of Cardiff and Bristol Airports stating: "Throughout the proposed development area turbines would be visible to the airport radar at Cardiff and the airport should be consulted regarding the operational impact of this. Throughout the proposed development area turbines would be visible to the airport radar at Bristol and the airport should be consulted regarding the operational impact of this." The WFAS review indicated that the wind farm could have impacts on their radar system.	As part of the WFAS analysis they modelled the potential visibility of the Site on the radar and confirmed that the turbines could be visible to the radar, (see Appendix 14A). Therefore, they are discussing with NATS/Cardiff and Bristol Airports the impact and any potential mitigation options that could be required.

14.3.4 Liaison is continuing with NATS/Cardiff and Bristol Airports with respect to their En-Route navigation aid and radar impacts to agree any potential mitigation options.

14.4 Data gathering methodology

Study area

14.4.1 Due to the nature of telecommunications and aviation systems, impacts are based on the locations, blade tip height, hub height and rotor diameter of the wind turbines as illustrated on **Figure 3.1.**

Desk study

14.4.2 A desk-based consultation exercise was undertaken to identify any telecommunications or aviation interests that may be affected by the Proposed Development. The results of the exercise are discussed in **Table 14.5** in **Section 14.3**.

14.5 Overall baseline

Current baseline

14.5.1 A number of microwave links were identified in the wider area, including two links operated by WPD/JRC that run across the Site (see **Table 14.5**).

14.5.2 NATS/Cardiff and Bristol Airports indicated that the scheme would be visible to their radar (see **Table 14.5**).

Future baseline

14.5.3 On the basis of the information currently available, no changes to the baseline conditions are anticipated in the event that the Proposed Development does not proceed.

14.6 Scope of the assessment

- 14.6.1 The scope of the assessment has been derived from policy guidance discussed in **Table 14.3.**
- 14.6.2 No Aviation and Telecommunication effects would arise from the proposed grid connection. This element of the Proposed Development is therefore not considered further in this chapter.

Temporal scope

14.6.3 Aviation and Telecommunications is an operational effect of the wind farm and is not present during construction or decommissioning. Therefore, the temporal scope of the assessment of Aviation and Telecommunications covers the operational period of the wind farm.

Environmental measures embedded into the proposed development

14.6.4 A range of environmental measures have been embedded into the development proposals as outlined in **Section 4.8** of this Draft ES. **Table 14.7** outlines how these embedded measures will influence the Aviation and Telecommunications assessment.

Table 14.7	Summary of the embedded environmental measures related to Aviation
and Teleco	mmunications

Receptor	Potential changes and effects	Embedded measures	Compliance mechanism
Telecommunications	Interference with microwave fixed link	If highlighted by operator then mitigation options would be investigated such as micrositing or other technical solutions	DNS planning condition
Aviation	Potential obstacles for MoD low flying exercises	MoD may request aviation lighting to ensure turbines visible at night to their aircraft.	DNS planning condition
	Potential visibility on Cardiff Airport ATC radar	Options to be discussed with Cardiff Airport. For example, a number of other wind farm developers are in discussion with Cardiff Airport about funding the provision of a radar upgrade, which would	DNS planning condition

Receptor	Potential changes and effects	Embedded measures	Compliance mechanism
		enable operation of wind farms without radar interference.	
	Potential visibility on Bristol Airport ATC radar	Potential impact and any potential mitigation options to be discussed with Bristol Airport.	DNS planning condition
	Potential visibility on Clee Hill NERL radar	Options to be discussed with NERL.	DNS planning condition

14.7 Assessment methodology

- 14.7.1 The basis of the assessment has been to consult with a number of organisations known to have an interest within the areas stated in the scope. The consultation list was drawn together based on advice given in TAN 8¹³.
- 14.7.2 The risk of interference with aviation and telecommunications has been assessed through consultation with the relevant organisations. The consultation list was drawn together based on identifying the local telecommunication bodies, other relevant parties identified by Spectrum Licensing (Ofcom) and key aviation stakeholders.

14.8 Assessment of effects

Predicted effects: Operation

Radar and Aviation Safeguarding

14.8.1 The turbines would potentially be visible to NERL Clee Hill radar, Cardiff Airport radar and Bristol Airport radar and technical mitigation will be required, as discussed in Section 14.6.

Telecommunication links

14.8.2 If a reduction in television reception quality occurs in the surrounding area, it is most likely to be noticed when the proposed wind farm becomes operational. Should planning permission be granted and to mitigate any problems with reception arising, the developer would assess current television signals in advance of development and mitigate post-development problems to television reception arising where effects are attributable to the proposed wind farm. Consultation suggests adverse effects may not occur and that in the unlikely event that interference does occur, this would be localised. This could be controlled by planning condition that would require the developer to meet the cost of

¹³ Geography & Technology, Welsh Government (2005). Technical Advice Note (TAN) 8: Planning for Renewable Energy. (Online) Available at: <u>https://apps.caerphilly.gov.uk/LDP/Examination/PDF/W66-TAN-8-Renewable-Energy.pdf</u> (Accessed February 2023).

investigating and effectively rectifying any problems should they arise and to implement solutions in a timely manner so as to minimise any inconvenience to residents.

- 14.8.3 Viewing quality can be improved by considering each or a combination of the following mitigation techniques:
 - replace or upgrade the receiving aerials (e.g., with directional receiving aerials) for affected households;
 - re-tune the television receivers at affected households;
 - re-align the television aerial to an alternative transmitter and re-tune the receiver at affected households; and
 - provision of a bespoke 'self-help' solution (this could comprise a new low powered transmitter, a cable network, a satellite receiver, or a combination of these measures).
- 14.8.4 The Ofcom Spectrum Information System was reviewed, and two links were identified that run across/close to the Site: WPD/JRC. Based on the current response status no objections have been received from WPD/JRC, however they may still respond as it can take them a number of weeks to process.

14.9 Assessment of cumulative effects

14.9.1 It is anticipated that the proposed measures discussed in **Table 14.7** would ensure no significant effects on telecommunications or aviation would arise from the Proposed Development. Any telecommunications effects would be limited to the Site and therefore cumulative effects with other developments would not arise. With regards to aviation, further discussions are proposed with NATS/Cardiff and Bristol Airports to agree suitable measures are adopted and how these will be secured. Other developments would need to undergo a similar exercise in avoiding aviation effects. Significant cumulative effects are therefore considered unlikely to occur.

14.10 Summary of effects

- 14.10.1 The degradation of microwave and other electromagnetic signals has been identified as much as possible as a result of consultation with stakeholders.
- 14.10.2 The Applicant is prepared to resolve any such problems should they arise as a result of construction and operation of the wind farm. Discussions are ongoing to agree a technical approach and planning condition(s) that would mitigate any microwave link impacts.
- 14.10.3 The MoD have highlighted that there may be a requirement for aviation lighting however have not yet advised as such.
- 14.10.4 The proposed turbines would potentially be visible on the NERL Clee Hill radar, Bristol Airport radar and Cardiff Airport radar. Discussions are ongoing to agree a technical approach and a planning condition that would mitigate radar impacts.

14.11 Further work to be undertaken

14.11.1 As stated above, further consultation with NATS/Cardiff and Bristol Airports is being undertaken. The results of this consultation, and any measures agreed to mitigate effects on radar, this information will be made available to consider with the application once an agreed approach has been finalised.



14.11.2 Further discussions with any telecommunications operators that highlight any impacts will be undertaken to mitigate any impacts on microwave links if required, this information will be made available to consider with the application if needed and once an agreed approach has been final