

APPLICATION FOR A MARINE LICENCE TO DREDGE AND/OR DISPOSE OF DREDGE MATERIAL

Please read the notes carefully before completing the form.

- The Marine Licensing Team (MLT) administers applications under Part 4 of the Marine and Coastal Access Act 2009 on behalf of the licensing authority, the Welsh Ministers.
- The completed application form must be accompanied by a location plan and, where appropriate, descriptive drawing(s) and any supporting environmental assessments. One completed hard copy of the application and supporting documents will always be required. Additional copies are required for consultation purposes.
 - For application and supporting documents less than 10MB we can accept an additional copy via email.
 - For applications larger than 10MB **16** additional copies in CD/DVD format will be required
 - When applications and supporting documents are hard copy only **16** copies will be required.
- Please submit applications to the **Permit Receipt Centre** via the details at the top of this form
- Please submit marine licence applications including this form and all supporting documents **at least 4 months before the licence is required.**

Some projects may raise matters that require a significantly longer time for consideration.

These are most likely to be:

- Projects that fall **within** The Marine Works (Environmental Impact Assessment) Regulations 2007 – as amended requiring an Environmental Statement
- Large scale projects with substantial volumes of material being deposited or excavated
- Works requiring an Appropriate Assessment to be conducted under The Conservation of Habitats and Species Regulations 2017
- Please note that an application will not be considered to be complete until sediment sampling and analysis has been undertaken. Please allow an additional **2 months** for sampling plan details and all relevant information to be submitted should sampling analysis be required.
- Information should be provided about the anticipated **duration of the entire project** in respect of works below/seaward of Mean High Water Spring (MHWS). Where appropriate, planned phasing of the work for which consent is sought must be detailed. For projects lasting more than one calendar year, planned phasing details must be given for each 12 month period.

A licence fee is payable in respect of an application. Details of fees can be found on our web pages.

Please note applications will not be processed without the correct relevant fee or invoicing details.

- Payments can be made via Cheque, BACS or credit/debit card.

- Cheques should be crossed and made payable to **Natural Resources Wales**.
- For BACS payments ensure you provide the reference number (not remittance number)
- For credit/debit card payments please complete the CC1 form and submit with the application. The CC1 form can be found on our web pages

Further information on payment methods can be found on our web pages

- **All dredge and disposal activities need to comply with the Water Framework Directive (WFD). The framework and guidance can be found on the Natural Resources Wales website, <http://naturalresources.wales>. The results of your WFD assessment must be attached to your marine licence application.**
- Please answer all questions. If any information is not available at the time of application please indicate in the relevant section, giving reasoning in a covering letter. Outstanding details must be submitted as soon as possible. Any delay in forwarding details is likely to result in delays in determining your application.

Your application may not be considered complete and therefore not processed until key information has been submitted. Your application may be returned if you fail to submit outstanding information within given timescales.

- Please note any licence may have conditions that must be discharged before works can commence. This will take additional time.
- If you have any queries with regards to completing this application please contact the MLT: marinelicensing@naturalresourceswales.gov.uk

How your application will be processed by the MLT:

- Submit all application to the **Permit Receipt Centre** via the details at the top of this form.
- Checked and acknowledged by the MLT within 21 days of receipt of application and payment
- If the application is complete and no further information is needed at this time, your application will be placed in a work queue to be assigned a permitting officer
- If the application is not complete, further information will be request and need to be provided before the application can be considered as complete
- Our **4 months** service level for determining non-EIA applications will begin from the date the **completed** application, including sampling results, is received (*Please note some projects may take significantly longer than 4 months to determine due to their nature*)
- EIA projects may take significantly longer due to their scale and complexity. Therefore we encourage early engagement with the MLT
- Your application and supporting documents will be sent to for an initial consultation period of 28 days (*42 days for EIA projects*)
- For the majority of projects, a public notice must be advertised. Public consultation will be 28 days (*49 days for EIA projects*). For EIA projects a second public notice will be required. The MLT will advise on how this should be done.

It is the responsibility of the applicant to obtain any other consents or authorisations that may be required.

Application Form Structure

1. Project description and cost
2. Applicant details
3. Dredging contractor (Producer) details
4. Holder details
5. Agent details
6. Environmental Impact Assessment (EIA)
7. Current consents
8. Licensable Period
9. Duration of dredging operation
10. Dredging and/or disposal vessel(s) details
11. Method statement for dredging
12. Areas to be dredged
13. Details of materials to be dredged
14. Details of material quality
15. Construction/Land reclamation projects
16. Alternative Means of Disposal
17. Disposal at Sea
18. Conservation bodies
19. Statutory powers
20. Public register
21. Application fee
22. Declaration

Check List

Please ensure that you have included all the necessary information before you submit you application. **If any of the below are not completed in the application form, the application is likely to be considered incomplete and may be returned to you**

Item	Yes (√)
The applicant is a legal entity?	√
The declaration is signed by the applicant?	√
Is the application fee correct?	√
Are the grid references/coordinates correct?	√
Do the coordinates match map locations?	√
Have all the relevant supporting documents been submitted?	√
Has a clear methodology been provided in the application form?	√
Has Protected sites information been included?	√
Are all the continuation sheets for application questions appended with correct	√

Should you have any queries regarding you application please contact the MLT via marinelicensing@naturalresourceswales.gov.uk

1. Project Description and Cost

1 (a). Project Name

Project Erebus Floating Offshore Wind Farm

1(b). Please provide a brief description of the proposed project, including location

The Project is a demonstration scale Floating Offshore Wind development. The array is located approximately 35 km southwest of the Pembrokeshire coastline, covering an area of 43.5 km² in water depths of between 65-85 m. The array area is located outside of the 12 nm limit, but all elements of the Project, array area, offshore export cable corridor and landfall, fall within Welsh territorial waters or the Welsh Zone.

The Project comprises 6-10 Wind Turbine Generators (WTG) with a total generating capacity up to 100 MW. Each WTG is housed on a semi-submersible floating platform with a mooring system comprising a maximum of five catenary mooring lines, up to 870 m in length, and a range of foundation options including drag embedment anchors, driven piles, drilled piles and/or suction piles. Up to 10 dynamic array cables are proposed, with a lazy wave configuration from the semi-submersible floating platform to the seabed. The offshore export cable, up to 49 km in length, links the array area to landfall at West Angle Bay, Pembrokeshire.

Sandwave levelling in certain sections of the export cable via use of a Mass Flow Excavator (MFE) and/or Trailer Suction Hooper Dredger (TSHD) is proposed ahead of export cable installation, to facilitate burial of export cables to target depth. Any materials removed via this process will be returned *in situ* as close to the point of removal as possible.

This application form focusses on these dredge/disposal aspects only.

A separate Marine Works Application Form for the wider project components has been prepared and submitted alongside this Application Form.

1(c). Please provide an estimated gross cost of the project (Inc. materials and labour) for works that fall below/seaward of Mean High Water Springs (MHWS)

£300-400 million

1 (d). Please specify which activities you are applying for (tick all that apply)

Dredging Disposal

1(e). Please provide the annual tonnage being applied for in this marine licence application

900,000 tonnes (one-off activity)

2. Applicant Details

(this must be a legal entity such as an individual, registered company/ charity or a public body)

Title Name Surname

Company or Trading Name

Registered Address (inc. postcode)	Blue Gem Wind Ltd. Bridge Innovation Centre, Pembrokeshire Science and Technology Park, Pembroke Dock, Wales. SA72 6UN
Name of Contact (if different)	
Position in Company	Consenting Manager
Telephone no. (inc. area code)	00353 086 8825432
Email address	Ben.huskinson@bluegemwind.com
Company Registration Number	11116383

3. Dredging Contractor (Producer) Details

(The **Producer** is anyone whose activities produce the material intended to be deposited at sea)

If the **Producer** is the applicant in 2, please tick and move on to section 4

Title	<input type="text"/>	Name	<input type="text"/>	Surname	<input type="text"/>
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Company or Trading Name	<input type="text"/>
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Address (inc. postcode)	<input type="text"/>
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Name of Contact (if different)	<input type="text"/>
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Position in Company	<input type="text"/>
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Telephone no. (inc. area code)	<input type="text"/>
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www.naturalresourceswales.gov

Email address

Company Registration
Number

If there is more than one **producer**, please continue on a separate sheet and tick box

4. Holder Details

(The **Holder** is anyone who is in possession of the dredged material prior to its deposit at sea)

If the **Holder** is the applicant in 2, please tick and move on to section 5

If the **Holder** is the producer in 3, please tick and move on to section 5

Title

Name

Surname

Company or Trading
Name

Address
(inc. postcode)

Name of Contact
(if different)

Position in Company

Telephone no.
(inc. area code)

Email address

Company Registration
Number

If there is more than one **holder**, please continue on a separate sheet and tick box

5. Agent Details

(An **Agent** is anyone engaged to act under contract or other agreement on behalf of any party listed in **2,3 or 4** having responsibility for the control, management or deposit of the material anywhere below Mean High Water Springs). This is who we will correspond with unless otherwise informed. If there is no agent, we will contact the applicant.

Function (eg. Sea Disposal Contractor)	EIA / Consenting Consultant		
Title	Mrs	Name	Lara
		Surname	Lawrie
Company or Trading Name	MarineSpace Ltd		
Address (inc. postcode)	Marine Energy Hub, Second Floor, Pier House, Pier Road, Pembroke Dock, Pembrokeshire, SA72 6TR		
Name of Contact (if different)			
Position in Company	Senior Consultant		
Telephone no. (inc. area code)	07506 577153		
Email address	Lara.lawrie@marinespace.co.uk		
Company Registration Number	5945946		

If there is more than one **agent**, please continue on a separate sheet and tick box

Does the Applicant wish to be included in all correspondence? Yes No

6.Environmental Impact Assessment

6(a). **Have you considered the works to be under the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended) on the assessment of the effects of certain public and private projects on the environment?**

Yes No

6(b). If **Yes**, which Annex do you consider they fall within? Annex I Annex II

6(c). Have you applied for a screening or scoping opinion from the **MLT** under the **Marine Works (Environmental Impact Assessment) Regulations 2007** (as amended)?

Yes No

If **Yes**, what is the reference?

SC1905

6(d). Has an Environmental Impact Assessment been undertaken to support this application?

Yes

No

If **Yes**, is a copy of the assessment included in this application?

Yes

No

6(e). Please provide an explanation if assessment has been done and a copy is **not available**.

The Dredge and Disposal Application accompanies a Marine Works Application for Project Erebus Floating Offshore Wind Farm. The full ES is submitted with the accompanying Marine Works Application.

7. Current Consents (if applicable)

7(a). Existing Licence(s)/Consent(s)
Reference Number

NA

7(b). Expiry date

NA

7(c). Quantity (tonnes) deposited under
Current licence at (date)

NA

7(d). If **No** current licence/consent exists, please give reference number(s) for any historic licences(s)/consent(s) held for this operation or state if this is not applicable.

NA

8. Licensable period

Determination of your Marine Licence application will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the Requested Licence Expiry Date you may be required to submit a new application. *Including a contingency period within your original application does not impact on Licence Fee*

Start Date 01/01/2025

Requested Licence Expiry Date

01/01/2029

Please ensure you submit your application for a Marine Licence **at least 4 months** prior to the intended start date. Some projects will take significantly longer than this to determine.

9. Duration of Dredging and/or Disposal Operation

If your operation will not take place year round at the locations outlined in section 12, please state the expected periods when dredging and/or disposals will take place.

9(a). Proposed periods of dredging and/or disposal operations

Exact time of year currently unknown but expected to be summer period.

9(b). Expected completion date of dredging and/or disposal operations

Predicted duration of sandwave levelling works = 15 days

10. Dredging and/or Disposal Vessel(s) Details

	Operator	Name of Vessel	Vessel Registration Number	Country of Registration	Method of Deposit
(a)	TBC	TBC	TBC	TBC	TBC
(b)					
(c)					

Please continue on a separate sheet if necessary. Please tick if you have done this

11. Method statement for dredging and/or disposal operations (if applicable)

Please provide a comprehensive method statement for each dredging campaign, including type of dredging (if using different types at different locations please state), duration, and depth of proposed dredge, dredge areas and deposit areas

Sandwave levelling is required to be undertaken for the following reasons:

- To ensure that the cable burial tool will operate in a relatively flat seabed to undertake the cable installation and burial safely and efficiently without risk of damaging the equipment or the cable; and
- To ensure that the Erebus export cable will be buried up to a depth of lowering which guarantee the required level of protection across the project lifetime.

Sandwaves are generally mobile in nature, therefore the cable should be buried beneath the non-mobile seabed level in order to avoid the detrimental effect of natural sand wave migration.

This is usually achieved by removing the mobile layer of sediment before installation takes place. Sandwaves reduction is typically undertaken either via TSHD or MFE.

TSHD's operate by deploying a dredging arm to the seabed, where the trailing drag head is in contact with the seabed, as the vessel is in motion. High pressure water pumps flush water into the seabed loosening the sediment which is sucked up and into the hopper onboard the vessel. Sediment is then redeposited in the marine environment so as to avoid permanent loss of sediment from the system / maintain the local sediment 'budget', where required (e.g. by direct release from the hopper to the seabed or fluidising the sediment and pumping it to the disposal location).

MFE are widely employed in the industry for sand wave or mega-ripple pre-sweeping, and for a post lay burial application with an approximate typical footprint of ranging between 7 and 10 m width operating with a maximum working pressure of 350 Bar and flow rates of up to 4 m³/sec. MFE's can be used in a combination of modes to either fluidise the seabed beneath the cable and allow it to sink further into the trench beneath or used to jet the seabed soils at a specific angle, pushing sediment across and into the cable trench to increase the depth of cover in loose sandy seabed.

Sandwave levelling is estimated to be required along 3 km of the 49 km long export cable route, i.e. 6 % of the total length.

Please continue on a separate sheet if necessary. Please tick if you have done this

12. Areas to be Dredged

	Name of Area to be Dredged (an annotated chart must be attached with each proposed dredge area-boundary latitude and longitude should be given in next column)	Coordinates (degrees and minutes to 2 decimal places)	Nature of Dredge (such as river, sea, harbour, estuary)	Date Area last Dredged (If known) (month and year)
(a)	Segment – 1	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
(b)	Segment – 2	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
(c)	Segment – 3	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
(d)	Segment ID – 4	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
(e)	Segment ID – 5	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
(f)	Segment ID – 6	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA

(g)	Segment ID – 7	Refer to <u>Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates</u>	Offshore (sea)	NA
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Please continue on a separate sheet if necessary. Please tick if you have done this

13. Details of Material to be Dredged and/or Disposed

For each area listed in 12 [a to e] including any listed separately, please give the following information:

	Type of Material (Maintenance or Capital Dredge)	Specific Gravity (estimate)	Physical Composition of Materials (Approximate proportions by volume of clay/silt/sand/gravel/etc...)	Depth of Material being Removed (Approximate maximum depth in metres)	Quantity to be Dredged each year (Indicate in-situ cubic metres or metric tonnes)
Export Cable Corridor					
(a)	Segment – 1 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	26,000 m ³
(b)	Segment – 2 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	19,500 m ³

(c)	Segment – 3 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	26,000 m ³
(d)	Segment – 4 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	52,000 m ³
(e)	Segment ID – 5 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	97,500 m ³
(f)	Segment ID – 6 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	117,000 m ³
(g)	Segment ID – 7 Sandwave removal	2.65	Sand to gravelly or muddy sand (typically 10 to 20% fines but up to 50% in some areas)	Up to 6 m	65,000 m ³

Please continue on a separate sheet if necessary. Please tick if you have done this

Dredged and/or Disposal Material: additional information

For each area listed in **10** [a to e] including any listed separately, please give the following information:

	Type of Contamination (State if material to be deposited at sea is likely to be contaminated by any known waste discharge or man-made rubbish (e.g. scrap metal/concrete))	Type of Dredger Proposed to be Used	Any beneficial uses (inc. mitigation) for the material to be dredged (any alternatives to disposal at sea should be indicated, details in 11)
Export Cable Corridor			
(a)	None expected – clean, offshore sands	THSD (or MFE)	Sediment retained in system close to point of removal to mitigate any effects on regional sediment processes
(b)	None expected – clean, offshore sands	THSD (or MFE)	
(c)	None expected – clean, offshore sands	THSD (or MFE)	
(d)	None expected – clean, offshore sands	THSD (or MFE)	
(e)	None expected – clean, offshore sands	THSD (or MFE)	
(f)	None expected – clean, offshore sands	THSD (or MFE)	
(g)	None expected – clean, offshore sands	THSD (or MFE)	
Offshore Array Area			
(h)	None expected – clean, offshore sands	THSD (or MFE)	Sediment retained in system close to point of removal to mitigate any effects on regional sediment processes

Please continue on a separate sheet if necessary. Please tick if you have done this

14. Details of Material Quality

Applicants are not normally required to specify chemical quality of dredged materials for deposit, unless depositing at sea. There will usually be a requirement to submit samples for the purpose of assessing the effects of the materials on the marine environment to enable the UK to fulfil its obligations under International Conventions

14(a). Has the dredged material been chemically analysed in the past 3 years? Yes No

14(b). Can the sample be made available now if required? Yes No

If **No**, please state when they will be available

15. Construction/Land Reclamation Projects

15(a). Is the dredging operation related to a construction or land reclamation project?

Yes No

If **Yes**, have you applied for a construction or reclamation licence under **Part 4** of the **Marine and Coastal Access Act 2009**? Yes No

If you have **Not** yet applied for a construction/reclamation licence, please provide an explanation

Please continue on a separate sheet if necessary. Please tick if you have done this

16. Alternative Means of Disposal

The Licensing Authority requires applicant to have regard to the practical availability of alternative means of disposal or treatment (other than deposit at sea) when determining whether to issue a licence, in order to fulfil its responsibility.

Please state the results of your investigations to identify alternative means of disposal, including beneficial uses, or treatment of the materials, along with cost of all options, including deposit at sea.

The temporary removal of sandwaves within the Project Erebus consent boundary is proposed in order to facilitate safe burial of key project infrastructure. All material removed will be returned *in situ* to minimise any effects of this activity on regional-scale sediment transport processes. Permanent removal of this material could result in adverse effects on the local environment.

Please continue on a separate sheet if necessary. Please tick if you have done this

17. Disposal at Sea

17 (a). Do you intend to dispose of any dredged material at sea Yes No

17 (b). Please provide the disposal site code

New disposal area

17 (c). Please provide the coordinates of the intended disposal site

See **Continuation Sheet 1 – Erebus Dredge and Disposal Coordinates**

18. Conservation Bodies

18 (a). Licensing Authorities have a duty to ensure that projects will **not have significant adverse environmental impact**, particularly on any designated **European Site of Conservation Importance - Special Areas of Conservation (SAC) and Special Protection Areas (SPA), listed under the Habitats Directive (Council Directive 92/42/EEC on the conservation of natural habitats and of wild fauna and flora)**. In addition, it is Government Policy that Wetlands of International Importance (Ramsar sites) are also considered as European Sites. There is a duty to take reasonable steps to further the conservation and enhancement of nationally designated sites (Sites of Special Scientific Interest (SSSIs)).

Please provide copies of correspondence with Natural Resources Wales or its legacy bodies (**in this case the Countryside Council for Wales**) or Natural England. Please indicate below if **no consultation had yet taken place**.

Details of all consultation undertaken in relation to this application are included within the topic chapters of the ES and summarised in the **Volume 3: Technical Appendix 2.3: Consultation Report**.

Please continue on a separate sheet if necessary. Please tick if you have done this

18 (b). **Are any parts of the proposed works located *within or likely to affect* a designated conservation site? (SAC, SPA, SSSI or Ramsar Sites)** Yes No

18(c). If **Yes**, which designated site(s) will the works fall within:

West Wales Marine SAC
Skomer, Skokholm and Seas off Pembrokeshire SPA

18(d). **Please provide a description of all measures proposed to avoid any impacts on designated conservation sites**

Please see **ES Chapter 8: Offshore Designated Sites** and **Volume 3, Technical Appendix 8.3: Report to Inform Appropriate Assessment**.

Please continue on a separate sheet if necessary. Please tick if you have done this

18(e). If **No**, please indicate the approximate distance to the nearest conservation site of the proposed works.

19. Statutory Powers

Do you or (if appropriate) your client, have statutory powers to consent any aspect of the project?

Yes

No

If **Yes**, please give details:

20. Public Register

Under The Marine Licensing (Register of Licensing Information)(Wales) Regulations 2011 and the Environmental Impact Assessment Directive (Directive 85/337/EEC - as amended) , all information contained within or provided in support of this application will be placed on the Public Register unless NRW approve of the applicant's reasons for withholding all or part.

Is there any information contained within or provided in support of this application that you consider **should not be included** on the Public Register on the grounds that its disclosure:

19(a). Would be contrary to the interest of National Security? Yes No

19(b). Would prejudice to an unreasonable degree you, or some other person's commercial interest of those of a third party? Yes No

If **Yes**, to either (a) or (b), please full justification as to why all or part of the information you have provided should be withheld.

Please continue on a separate sheet if necessary. Please tick if you have done this

21. Application Fee

21(a). What are the corresponding fee band for this application? Band 2 Band 3

21(b) Band 2 Only

Projects are charged at a fixed fee of £1920. The application will not be processed until the correct fee has been provided.

Please provide the method of payment

Method	Yes (✓)	Reference Number
Cheque		
BACS (not remittance no.)		
World Pay (phone or CC1)		

Please attach **CC1 Form** with application. Can be found on our web pages

21(c) Band 3 Application only

Band 3 applications are charged at on hourly rate of £120 and are invoiced in arrears. Please complete the details below which will be required for invoicing.

Customer Name	Ben Huskinson, Blue Gem Wind Ltd
FAO	
Purchase order number	Please use reference - Erebus FLOW Dredge and Disposal
Address for invoice	Blue Gem Wind Ltd. Bridge Innovation Centre, Pembrokeshire Science and Technology Park, Pembroke Dock, Wales, SA72 6UN
Telephone Number	00353 086 8825432
Email Address	Ben.huskinson@bluegemwind.com

22. Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and related papers is true.

WARNING: It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information and can invalidate any licence granted.

Ben Huskinson

Signature _____ Date: 16/12/2021

Name (in capitals) BEN HUSKINSON

Position in Company Consents Manager

*Applications cannot be processed unless signed by the applicant (not agent); the applicant must have the appropriate level of authority within the company. **Applications will not be processed unless signed.***