

Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Application type

Reference number (The number you generated in form WRA). Example:
WRNATURALRESOURCESWALES1101

WA/065/0004/001

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.

25kW or less

Are there any applications currently being assessed by us that are linked to this application?

Yes

Is the proposed abstraction going to be aggregated with another existing abstraction?

No

Linked applications

Please confirm how this application is linked to the other application(s)

Example: this application could be one of multiple abstractions and/or impoundment licence applications at the same site. The proposal could involve water rights trading, or this application could be linked to another application for a previously exempt activity.

New plan of intake provided

Linked application numbers

PAN-02835 WA/065/0004/001

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Are any applications, at the same site; being assessed by the Environment Agency?

Yes

What are the application reference numbers?

PAN-02835 WA/065/004/001

-
-
-

Tell us when you want your abstraction licence to end: [DD/MM/YY]

31/03/2025

If you require a shorter or longer duration licence, please provide details and your justification

No

Submit additional details if required

- File: 2024 07 03 WA0650004001 Compliance report CAR_NRW0044773-Afon Gorsen Hafod Y Llan_.Pdf - [Download](#)
- File: 2024 07 03 WA0650004008 Compliance report CAR_NRW0044935-Afon Gorsen Hafod Y Llan_.Pdf - [Download](#)

Abstraction details

Abstraction location name/reference

Afon Gorsen WA/065/004/001

Abstraction point type

Single point

National Grid Reference

SH 62247 50915

Do you have any further points of abstraction?

No

Means of abstraction

Provide full details of the equipment you propose to use to abstract water, such as maximum pump capacity and any relevant dimensions, e.g. pipe diameter. For groundwater abstractions, include details about the borehole (depth and diameter) and details of screening and lining.

Intake working as per original scheme only plan of intake supplied by TGV did not match intake.

If necessary, continue on a separate sheet and upload below.

- File: Gorsen Intake (1of2).pdf - [Download](#)
- File: Gorsen Intake (2of2).pdf - [Download](#)
- File: 2024 07 03 WA0650004001 Compliance report CAR_NRW0044773-Afon Gorsen Hafod Y Llan_.Pdf - [Download](#)
- File: 2024 07 03 WA0650004008 Compliance report CAR_NRW0044935-Afon Gorsen Hafod Y Llan_.Pdf - [Download](#)
- File: Afon Gorsen Abs Lic.pdf - [Download](#)

Please upload your drawings and calculations here. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: Gorsen Intake (1of2).pdf - [Download](#)
- File: Gorsen Intake (2of2).pdf - [Download](#)

Abstraction quantities

Abstraction location name/reference

Same as WA/065/0004/001

What purpose will the water be used for?

Generating electricity

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 435,372

Daily 1,900

Hourly 79.0

Peak abstraction rate (in litres per second)

22

Number of hours of abstraction per day

24

Add quantities for another location?

No

Calculations and supporting information

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below.

If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.

Calculated by HAF

Industry-specific requirements

	% abstraction and zone applied for	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres squared)	Net head between abstraction and discharge points (metres)
	As Per Abstraction Lic WA/065/0004/001	As Per Abstraction Lic WA/065/0004/001	As Per Abstraction Lic WA/065/0004/001	As Per Abstraction Lic WA/065/0004/001

	Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)
	.84	.96	16.0	-

State the length of depleted reach (in metres)

114.5

Provide the flow data (in cubic metres per second) & ratios specified below:

Q95	As Per Abstraction Lic WA/065/0004/001
Q10	As Per Abstraction Lic WA/065/0004/001
Qmean	As Per Abstraction Lic WA/065/0004/001
What is the ratio of Q95:Qmean?	As Per Abstraction Lic WA/065/0004/001
What is the ratio of Q10:Qmean?	As Per Abstraction Lic WA/065/0004/001

What low flow protection (Low flow protection is the flow rate above which abstraction can begin and is separate to the abstraction % take) do you propose to maintain in the depleted reach when the hydropower scheme is operating (in m3/s)?

As Per Abstraction Lic WA/065/0004/001

Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.

Power Generated

Water efficiency

Provide details of what measures you provide or intend to implement, to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practice.

As Per Abstraction Lic WA/065/0004/001

Fish and eel considerations (surface water abstractions only)

Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse. For further guidance on appropriate screening Intake screening for fish

	Intake	Outfall
Type of fish screen	1 mil screen	10 mm mesh
Screen aperture size (mm)	1 mil	10 mm mesh

Discharge details

Provide a description of the structure and equipment involved in discharge.

Pipe discharge into river as plan in As Per Abstraction Lic WA/065/0004/001

Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists.
Your local authority's environmental health will hold details of exempt domestic abstractors.

none

Planning application

Have you sought advice on your planning application?

No

Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

Signed W Owen

Print name Wynn Owen

position Business Services Co-ordinator

If you need to submit additional signatures, please upload here in a separate document.

- File: Scan_Owen Wynn_sign.pdf - [Download](#)

If an agent is to sign on behalf of the Licence Holder, a letter of authorisation from the Licence Holder is required.

- File: Letter of Authority - Abstraction Licence 2025.pdf - [Download](#)

Date

* 11/03/2025

Would you like a copy of your submission?

Yes

Your email address

wynn.owen@nationaltrust.org.uk