

Document Reference Number 100882144
Revision 01
EA-SZC-21561N

NOT PROTECTIVELY MARKED

Environment Agency
c/o The Joint Programme Office
New Reactor Programme
4S.2 Redgrave Court
Merton Road Bootle
L20 7HS

File Ref: 100882144
Unique Number: EA-SZC-21561N
Your Ref.: EPR/CB3997AD/A001

13/05/2021

For the attention of [REDACTED], Senior Permitting Officer

Dear [REDACTED],

**FOR INFORMATION: NNB GENERATION COMPANY (SZC) LIMITED APPLICATION FOR WATER DISCHARGE ACTIVITY
OPERATIONAL ENVIRONMENTAL PERMIT FOR SIZEWELL C – ENVIRONMENT AGENCY SCHEDULE 5 NOTICE**

Further to your Schedule 5 Notices requesting further information dated the 18th of January and 23rd of April 2021 (Application Reference: EPR/CB3997AD/A001), please find below the information requested for the Sizewell C Water Discharge Activity (WDA) Permit Application.

No.	EA Information Request	SZC Response
Sch5 no.4 Item 1a	<p>How species / category names used in 'Species lookup info for bootstrap outputs - numbers.csv', 'TR339 Comb Data Pisces and Cefas - Weights 5 for R.csv' and 'TR339 Simplified Comb Data Pisces and Cefas_w_blenny.csv', relate to those used in 'TR339 Data comp WB Cefas 2014-2017.xlsx' and 'SZ CIMP 2009_2012 Pisces SW comp SS MASTER.xlsx'.</p> <p>Please provide a table to set out and clearly explain how the species / category names used in the above files relate to each other. This information request relates to all species of fish and invertebrates, and all categories of weed</p>	<p>The information requested is presented in the spreadsheet 'Species code lookup_2009_2017.xlsx'. This provides details of the species / category names used in the analyses. As requested, the information presented includes details of all fin fish, invertebrates, weed and trash.</p> <p>The species codes and descriptions used in 'Species lookup info for bootstrap outputs - numbers.csv', 'TR339 Comb Data Pisces and Cefas - Weights 5 for R.csv' and 'TR339 Simplified Comb Data Pisces and Cefas_w_blenny.csv' are linked to those used in 'TR339 Data comp WB Cefas 2014-2017.xlsx' and 'SZ CIMP 2009_2012 Pisces SW comp SS MASTER.xlsx'.</p> <p>A copy of the spreadsheet 'Species code lookup_2009_2017.xlsx' has been uploaded to the EA ShareFile.</p>

Document Reference Number 100882144

Revision 01

EA-SZC-21561N

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	and trash. Therefore, please ensure your response includes these.	
Sch5 no.4 Item 1b	<p>It appears that certain species may have been grouped together and presented as a single species in 'TR339 Simplified Comb Data Pisces and Cefas_w_blenny.csv', for example: 'PFX' appears in 'TR339 Data comp WB Cefas 2014-2017.xlsx', but not in 'TR339 Simplified Comb Data Pisces and Cefas_w_blenny.csv'.</p> <p>Please provide written explanation to confirm exactly which species have been grouped together, should this information not be apparent from the response provided to information request 1. This information request relates to all species of fish and invertebrates, and all categories of weed and trash. Therefore, please ensure your response includes these.</p>	<p>In some instances, certain species are grouped together for final analysis and reporting. These are as follows.</p> <ul style="list-style-type: none"> • Ctenophores – Reported as weights, this group is comprised of organisms recorded as both ctenophore (CTA) and <i>Pleurobrachia pileus</i> (PBP). • Jellyfish - Reported as weights, this group is comprised of organisms recorded as 'Jellyfish' in the Pisces years, and the following codes in the Cefas years: <ul style="list-style-type: none"> ○ AUA (moon jellyfish, <i>Aurelia aurita</i>) ○ BAR (barrel jellyfish, <i>Rhizostoma octopus</i>) ○ BLU (blue jellyfish, <i>Cyanea lamarckii</i>) ○ CAX (<i>Cyanea</i> spp) ○ COJ (compass jellyfish, <i>Chrysaora hysoscella</i>) ○ CRI (crystal jellies, <i>Aequorea</i> spp) ○ JEL (Jellyfish) ○ LIO (lions mane jellyfish, <i>Cyanea capillata</i>) • Sand gobies – Reported primarily as numbers, this group is comprised of organisms recorded as <i>Pomatoschistus minutus</i> (GMG) and <i>Pomatoschistus pictus</i> (PTG) during the Pisces years, and as <i>Pomatoschistus</i> spp_Gobies (POM) in the Cefas years. These are combined into POM2_ <i>Pomatoschistus</i> spp all_All sand gobies for reporting. <p>With regards to the code PFX (Syngnithidae_Pipe-fish or seahorse indet), this code signifies species belonging to the family Syngnithidae. The single record appears on 28/04/2015 for which there is a weight only, with no associated number or length data. As a result, it appears in 'TR339 Data comp WB Cefas 2014-2017.xlsx', but not in 'TR339 Simplified Comb Data Pisces and Cefas_w_blenny.csv'. This code is used to record pipefish specimens that are significantly damaged and therefore cannot be further identified. The staff on the day in question confirm that this record relates to a damaged pipefish (not a seahorse specimen).</p>
Sch5 no.4 Item 5	The following information request is related to the data that was provided in response to the Sizewell C (SZC) Schedule 5 notice [No 2], information request 10(a) to 10(f). In the Sizewell C	<p>A copy of the technical report requested – Tern Survey Report 2020, has been uploaded to the EA ShareFile.</p> <p>Note that this survey report was submitted to the Planning Inspectorate as part of the DCO Submission.</p>

Document Reference Number 100882144

Revision 01

EA-SZC-21561N

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	<p>DCO changes document, additional baseline tern survey work has been submitted. The additional ecology baseline survey report (November 2020) included within Part 2 issue is as follows:</p> <ul style="list-style-type: none"> • Tern Survey Report 2020 (SZC Bk6, 6.13, EN010012-002584) • The above report is available from the PINS website at the following web-link: https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002584-SZC_Bk6_6.13_Additional_Ecology_Baseline_Survey_Reports_Nov_2020_Part2_of_2.pdf <p>Please submit a copy of the latest version of the above Tern Survey Report 2020 for submission into the SZC WDA permit determination (as a copy of the report is required to progress with the HRA).</p>	
Sch5 no.2 Item 2a	<p>Please confirm mortality rates of fish within the FRR system. This information is required as part of the technical assessment of waste stream H, as mortality rate(s) will affect moribund biomass (and may alter water quality impacts).</p>	<p>The information requested is presented in report TR520 (Sizewell C Influence of the fish recovery and return system on water quality and ecological receptors). A copy of this report (version 1) has been provided to the Environment Agency previously.</p> <p>An updated version (version 3) of TR520 is provided to the Environment Agency under Schedule 5 request no.2, item 2a.</p> <p>In version 3 of TR520, the effects of the SZC FRR discharges have been recalculated using the revised SZC impingement numbers presented in SPP111. The LVSE and FRR mitigation factors are unchanged from those detailed in TR406. As in version 1 of this report, the FRR effects assessment is presented with and without the LVSE intakes included.</p> <p>A copy of the report TR520 (version 3) 'Sizewell C Influence of the fish recovery and return system on water quality and ecological receptors' has been uploaded to the EA ShareFile.</p>

Document Reference Number 100882144
Revision 01
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Sch5 no.2 Item 13a	Please provide a copy of the latest version of each of the following reports: <ul style="list-style-type: none"> TR520 (understood to be Revision 1): Sizewell C Influence of the fish recovery and return system on water quality and ecological receptors. 	An updated version (version 3) of TR520 is provided to the Environment Agency under Schedule 5 request no.2, item 13a. A copy of the report TR520 (version 3) 'Sizewell C Influence of the fish recovery and return system on water quality and ecological receptors' has been uploaded to the EA ShareFile.
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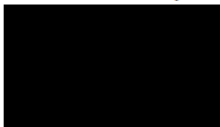
Whilst it is considered that the revised figures of TR520 rev.3 would not alter the overall findings of the Shadow Habitats Regulation Assessment (HRA) and Water Framework Directive (WFD), updated versions of these documents will be sent by 31st May 2021. Should you have any questions or comments we will be happy to provide further information on this as part of our ongoing Level 4 interactions.

The items past their submission deadline from the current list of Schedule 5 notices are listed below. These are:

- Schedule 5 Notice no.2 – requests 10a, and 13c.
- Schedule 5 Notice no.3 - request 1.


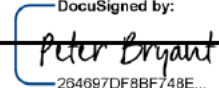
The outstanding information will be made available to the Environment Agency as soon as it becomes available.

Yours sincerely,



SZC Conventional Environment Lead
NNB Generation Company (SZC) Limited

Copy: RIO, JPO, 

NNB GenCo Review	Name	Signature
Peer Check	Ross Pettigrew	
Independent Verification	N/A	
Approval	Peter Bryant	

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Document Reference Number 100882144

Revision 01

~~ONR/EA-SZC-21561N~~**NOT PROTECTIVELY MARKED**Appendix 1

Enclosures for the Sizewell C Water Discharge Activity Permit Application Schedule 5 Information Request

	Document Title	Document Version Number	EDRMS Reference Number	EDRMS Version Number	Protective marking	Transmitted via
1.	Species code lookup_2009_2017.xlsx	001	100884441	001	NOT PROTECTIVELY MARKED	Teamcenter
2.	Additional Ecology Baseline Survey Reports (November 2020): Part 2 of 2	001	100882118	001	NOT PROTECTIVELY MARKED	Teamcenter
3.	TR520 - Sizewell C Influence of the fish recovery and return system on water quality and ecological receptors	003	100885028	001	NOT PROTECTIVELY MARKED	Teamcenter