

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: EA IR [No.1] - SZC Response
Date: 12 July 2021 12:40:17
Attachments: [image004.png](#)
[image007.png](#)
[image009.png](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image005.png](#)

Hi [REDACTED],

I hope your weekend went well?

Continuing the thread of submissions, below you will find SZC Co.'s response to Request [No.1] from the EA's Information Request email sent 04/06/21.

Please find below the SZC response (in red) to the following IR.

IR [No.1]

The Sizewell C (SZC) screens are referred to as being smaller than those at Hinkley Point C (HPC). Therefore, please confirm the following dimensions and details:

- (a) The perimeter of the SZC band screens.
As per HPC, as outlined in HPC CW infrastructure Fish Protection Measures: Report to Discharge DCO requirement CW1 and ML condition 5.2.31, section 6.2.6: The band screens will be approximately 25 m high and 2.5 m wide. Therefore the perimeter will be 55m.
- (b) The number of buckets per SZC band screen.
As per HPC, as outlined in HPC CW infrastructure Fish Protection Measures: Report to Discharge DCO requirement CW1 and ML condition 5.2.31, sections 6.2.12: The band screens are fitted with buckets for the safe recovery of fish from the screens. Buckets are fitted at approximately 600 mm intervals. Each bucket will retain approximately 40 l of water, equating to an approximate depth of 90 mm once the screen emerges from the water as it ascends towards the top of the screen; and 6.2.13: The buckets will be approximately 523 mm wide and approximately 2.5 m long (i.e. the full width of the band screen). Depth varies with the profile of the bucket, but will be around 100 mm.
- (c) The diameter of the SZC drum screens.
The drum screen diameter will be 23m.
- (d) The number of buckets per drum SZC screen.
The Responsible Designer is yet to perform the detailed structural design for the drum screen though the intention is to maintain the same number of spokes, thus the same number of buckets as at HPC. This information is outlined in HPC CW infrastructure Fish Protection Measures: Report to Discharge DCO requirement CW1 and ML condition 5.2.31, section 6.3.8: To improve fish protection, the drum screen has one collection

bucket mounted at the junction of every radial spoke of the drum (where spokes join the drum there is a cross member that joins the spokes on opposite sides of the drum, the cross members create a ledge which often partially traps fish before they drop back in to the drum screen well). This gives a total of 56 collection buckets on each side of the drum screen.

The response to IR [No.4] is still being developed and will be submitted as soon as possible.

As ever, please do get in contact with the team should you have any queries.

Best,

[REDACTED]

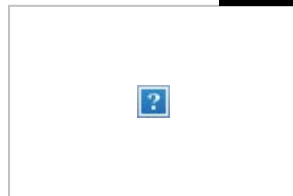
[REDACTED]

Environmental Engineer

Sizewell C Project

90 Whitfield Street, London, W1T 4EZ

MS Teams Number: [REDACTED]



From: [REDACTED]

Sent: 24 June 2021 19:10

To: [REDACTED]

Cc: [REDACTED]

Subject: RE: EA IR [No.2] - SZC Response (TR493)

Hi [REDACTED],

Further to the information submission made earlier today, please find below the SZC response (in red) to the following IR.

IR [No.3]

- a. *Please confirm if the proposed Sizewell visitor centre will be connected to the proposed private foul sewage system serving SZC, and if the proposed population of 135 people is included within the proposed discharge volume/loading calculations of 90 and 190 m³/day (or if these volumes, and proposed loadings within table 4.1.26 of the SZC WDA permit supporting report 100232385 need to be revised). If the proposed Sizewell visitor centre is not to be connected to the SZC foul sewerage infrastructure, please confirm what the proposals are for removal of the foul/sanitary effluent).*

At present the maximum discharge proposed for Waste Stream G is based upon 1900 staff on site. This is an estimate and may need to be revised in the future as more learning comes through from HPC. At present, the 1900 figure does not include the visitor centre as one is not included for HPC. Details of the SZC visitor centre have not been finalised so any effluent generated here will need to be considered at some point in the future.

- b. *Please clarify and confirm whether or not any laundry facilities and generated effluent will be treated and discharged via waste stream G (or any other waste streams from SZC)? Section 4.4.26 of Environmental Statement 6.3 - Volume 2 Main development site - Chapter 4 (via the above web-link) references that the sewage system would typically collect black and grey wastewater from kitchens, lavatories and laundry rooms. In WDA supporting report 100232385, 'laundry' is referenced within HVL (Hot laundry) and SBE (Laundry, Maintenance and Decontamination Services) via waste stream B (Trade effluent from operations within the nuclear island waste monitoring and discharge system). In your e-mail dated 06/08/2020, the SZC WDA comments excel spreadsheet (response row 42) states the following regarding laundry facilities at SZC: 'In line with HPC the laundry has been removed from system so no longer appears in waste stream B/C'.*

The GDA UK EPR design included a laundry building and provision of active laundry services linking to the SBE system in the HVL building and therefore associated waste streams. During the detailed design for HPC, to close out the site specific GDA Assessment Finding (AF-UKEPR-RP-08), HPC undertook an assessment which resulted in the removal of laundry services from HPC as an RC2 design change. This took into account Best Available Techniques (BAT) and the As Low As Reasonable Practicable principle. In order to not foreclose any future changes for active laundry strategy and ensure a reversible solution, the laundry building was left on the plot plan along with connections to the laundry room.

Following the replication strategy for SZC, this is the status that was used for the starting point and permitting at SZC. Discharges from laundry as part of waste stream B/C were therefore not applicable. A similar strategy for provision of active laundry treatment will need to be developed for Sizewell C. The key difference will be in relation to the site geographical size constraints which may make installation of an on-site active laundry more challenging than at HPC, either in the more immediate future or should Sizewell C decide to follow the same approach as HPC in not foreclosing installation at a later date. The GDA AF will need to be appropriately addressed and closed out for SZC. In applying BAT, SZC do not intend to re-produce the optioneering conducted at HPC with the exception of addressing any site-specific parameters. The active laundry strategy for SZC will be confirmed via the GDA AF closure form. The ONR and EA will be engaged with throughout the process to ensure alignment between all parties.

Effluent generated from laundry facilities is not intended to be discharged via any other waste stream at SZC.

Responses to IRs [No.1 & No.4] are still being developed and we endeavour to have these with you as soon as possible

As ever, please do get in contact with the team should you have any queries.

Best,

[REDACTED]

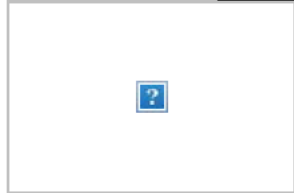
[REDACTED]

Environmental Engineer

Sizewell C Project

90 Whitfield Street, London, W1T 4EZ

MS Teams Number: [REDACTED]



From: [REDACTED]

Sent: 24 June 2021 14:39

To: [REDACTED]

Cc: [REDACTED]

Subject: EA IR [No.2] - SZC Response (TR493)

Hi [REDACTED],

I hope you are well.

Our team is in the process of developing the necessary responses to the EA's Information Requests (IRs) as submitted to SZC Co. The first of these responses is now ready for your review.

Please find below the SZC response (in red) to the following IR.

IR [No.2]

Please provide a copy of the latest version of the following report, as referenced within section 4.7.3 (page 48) of TR406 v7 (Sizewell C – Impingement predications based upon specific cooling water system design): TR493 (please provide the most up to date version): The effect of not fitting an AFD system at HPC on the operation of the HPC FRR systems.

In response to this IR please find the second revision of 'TR493: The effect of not fitting an AFD system at HPC on the operation of the HPC FRR systems', attached to this email. Let me know whether you want this uploaded to the DEFRA ShareFile.

Responses to IRs [No.1, No. 3 & No.4] are still being developed and we endeavour to have these with you as soon as possible


As ever, please do get in contact with the team should you have any queries.

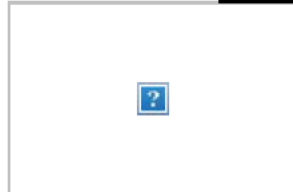
Best,




Environmental Engineer
Sizewell C Project

90 Whitfield Street, London, W1T 4EZ

MS Teams Number: 



This e-mail and any files transmitted with it are confidential and may be protected by legal privilege. If you are not the intended recipient, please notify the sender and delete the e-mail from your system. This e-mail has been scanned for virus and malicious content however NNB Generation (SZC) Company Limited cannot accept any liability for any loss or damage sustained as a result of integrity of this message or its attachments and the recipient must ensure themselves that the email (and attachments) are virus free.

No employee or agent of the Companies or any related company is authorised to conclude any binding agreement on behalf of the Companies or any related company by e-mail. All e-mails sent and received by the Companies are monitored to ensure compliance with the Companies information security policies. Executable and script files are not permitted through the Companies' mail gateway.

NNB Generation Company (SZC) Limited
Registered in England and Wales No. 9284825
Registered Office: 90 Whitfield Street, London, W1T 4EZ