

## Sizewell C Coastal Workshop 2 December 2020

### Chat Bar

Q1 From Sharon Bleese to Everyone: 10:05 AM

As Philip has said slides will be available on the ESC website/SZC section. We can share them by email too, but the presentation size may be challenging for some.

PP N/a

Q2 From Alison Andrews to Everyone: 10:36 AM

temp surface water outfall- won't water erode a channel in the shore?

PP yes. It will probably be temporary and heal quickly. Management of any major scour will be a liability for EDF.

Q3 From Andy Smith to Everyone: 10:37 AM

Piled jetties at Cromer and Fx? But major piers on coast for 100 years plus do not seem to have negative effects?

PP Leisure pier piles are relatively slender and far spaced so have little impact on waves, currents and shoreline.

Also vessels moored to piers are far from and parallel to the shore so impacts are low.

Permanent BLF pier piles will probably be larger and more closely spaced than leisure pier. Also barges will moor closer, and perpendicular, to the shore, which may interrupt sediment movement. Dredging of sand bars are required to allow access.

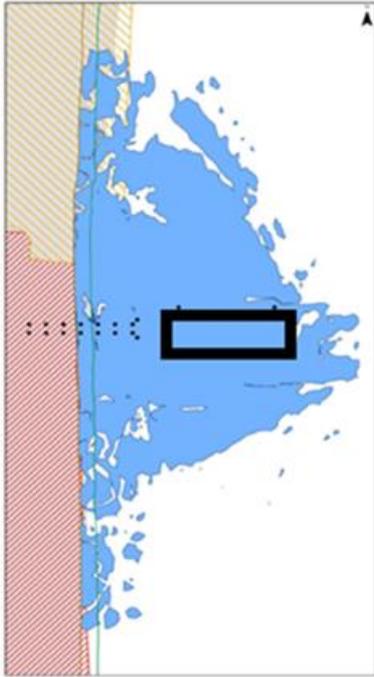
Temporary BLF pier piles appear closer to Leisure pier design and impact. Mooring distance from shore and vessel alignment varies between options 1 – 4. Impacts of longer temp BLF jetties are potentially less significant than shorter jetties but it is not possible to properly assess all impacts without further modelling.

Q3 From Paul Collins to Everyone: 10:37 AM

Modelling shown by EDF in the past of the original jetty proposal clearly showed accretion at the jetty, so any change from Floating/jacked pontoon structure is going to have a significant effect over and above the temporary BLF a shown here. Surely given issues already present to the south at Thorpeness.

PP The DCO permanent BLF was assessed by EDF to have an impact 'shadow' that is illustrated on slide 20 of the presentation (part copied below). Comparable impact assessments for the new 'Change' temporary BLF options have not yet been prepared but will be required to allow a proper assessment. EDF's view is that impacts will not be significant.

The total area corresponding to a magnitude of change greater than  $\pm 5\%$  for the BLF in use compared to no BLF, for both wave and tidal current directions.



Q4 From Andy's laptop (Andy Rouse) to Everyone: 10:39 AM

EDF apparently say North pier will be used for long term delivery. Why make long term impacts and disturbance some 0.5km closer to the most env sensitive end of the site. Keep it to the southern pier end where the main landing facilities located.

PP The location of the permanent BLF, that will receive large loads not able to travel by road, is seaward of the North Mound which will be rebuilt by the works to form a ramp to connect the BLF to the Main Site.

This is shown as a purple track on slide 18.

Q5 From Alison Andrews to Everyone: 10:40 AM

HCDF temporary defence sheet piling-- length of life.

PP Not stated in the EDF information. If it is to become buried below HCDF rock fill, as suggested by EDF in meetings with ESC, then it's exposed life would be ~10 years should be achievable.

Q6 From Andy Smith to Everyone: 10:40 AM

The black line on Fig. 4.4 appears to show 90deg return at southern end. That type of feature has always caused major scour?

PP The DCO HCDF alignment at this position shows a tapered transition to join with the SZB defence.

If the temporary defence line shown in figure 4.4 represents a change from the DCO defence alignment it is a concern to ESC. This point has been included in the ESC response to EDF.

Q7 From Paul Collins to Everyone: 10:41 AM

Your assessment of the HCDF is interesting but the fact that EDF seem to think that the adaptation will be needed only 12 years into the operation (2046) only 4 years prior to the DCO assertion that the HCDF will be exposed in approx. 2050. If exposure comes forward what is the point in adapting rather than making it higher immediately. The destruction of the covering would be almost just as it became established.

PP The date for potential Adaptation of the HCDF noted in the Change consultation referred to the DCO profile.

There is no forecast date for when the new HCDF profile shown in the Change consultation would require Adaptation. The new Change profile is much higher than the DCO proposal. It is possible that EDF have opted to make the initial HCDF design more robust to push back or avoid the need to Adapt it.

Q8 From Cllr David Beavan to Everyone: 10:57 AM

With the level of uncertainty, do we need to consider a wider armoury of mitigation measures to engineer our coastal processes rather than just feeding the beach?

PP A Monitoring and Mitigation Plan draft has been prepared but is not yet in the public domain. It describes in detail the measures proposed by EDF to identify and respond to negative impacts caused by the works. ESC, along with other members of the Marine Technical Forum, have reviewed and commented on it. The plan contains information fundamental to understanding how the development impacts will be managed over its life. ESC is pressing EDF to release it for public scrutiny.

Q9 From Russ Rainger to Everyone: 11:05 AM

I share Cllr Richard Smith's concern about the noise from sheet piling. This is usually done by impact driving and will likely cause a lot of noise and vibration. Also, Alison Andrews question on the life of the piles needs understanding.

PP This issue is outside the remit of Coastal Geomorphology. Our understanding is that the impact of noise and vibration in pile driving will need to be assessed by EDF and comply with constraints imposed by regulators.

Q10, 11 & 12. From Keith Martin to Everyone: 11:09 AM

Q10. The DCO made much of the Greater Sizewell Bay which is bounded to the south by the Ness at Thorpeness. It was held out to be a discrete unit and that there would be no danger further south, is to Thorpeness itself. The EA seems to agree. Do you agree with this?

PP The ESC view is that a precautionary position should be taken regarding the extent over which coastal impact monitoring is carried out and that Thorpeness village be included.

Q11. When will the Maintenance and Mitigation plan be available to see? Will it be subject to public consultation?

PP See response to Q8.

Q12. Will the MTF be open to the public?

PP It is unlikely that MTF meetings will be held in public however ESC is keen to make the MTF process as transparent as practicable including publishing meeting records and reports.

Q13 From Keith Martin to Everyone: 11:46 AM

I think there is a danger that we're concentrating too much on the lack of information on the coastal defence. The real danger is in the longer-term consequences for coastal processes and we are not looking at that closely enough.

PP The DCO information included detailed impact assessments on many topics including coastal processes. ESC's response to the DCO included concerns on the potential impacts of the DCO design on coastal processes. Those concerns remain valid.

The Change information has identified new structures, and changes to previous structures, with potential to cause new or increased negative impacts on coastal processes. However, until those new or amended structures are fully described, their impacts fully assessed and further mitigation measures identified, it is not possible fully understand the consequences of the Changes. The Coastal Defence has the potential to cause the most significant and long-lasting negative impact on the coast. For these reasons ESC believes that the lack of information provided by EDF on its shape, location and impact is a major shortcoming in the Change Consultation information.

Q14 From Russ Rainger to Everyone: 11:47 AM

The specific point around cumulative impacts has been raised before for traffic etc. The point here is the question of the offshore cumulative impacts. For seabed and coastline disruption. If birds move from SZC due to construction, they will find SPR or others making land fall pushing wildlife far away. Do we have an understanding of this cumulative impact?

PP This issue is outside the remit of Coastal Geomorphology. It is a significant issue that should be covered by the Ecology topic lead. Karen / Alysha – do we refer this to James Meyer?

From Karen Thomas to Everyone: 11:48 AM

Keith we are also concerned about long term effects and have discussed with MMO and EDF the challenges of putting a development into a dynamic environment. we know its challenging to determine impacts now and it will be even more difficult with SLR and natural change to identify what is down to 'nature' and what is down to EDFs proposal.

From Cllr Graham Newman to Everyone: 11:48 AM

Keith Martin - absolutely agree with you.