

**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Re: Credible Maximum Scenario - input into Sizewell C assessment  
**Date:** 04 March 2024 08:59:03  
**Attachments:** [storyline new template SEA LEVEL.v2.docx](#)

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Hi [REDACTED],

Sorry for not responding sooner, I was on leave Friday.

I can confirm that the revised figures is reasonable and within the region of UK credible maximum sea level rise estimates for 2110 in current studies/literature. It is close to the 2.3m from the IPCC high end scenarios - see attached document. The land movement and skew surge estimates are reasonable.

I would like to understand more precisely how they derived these numbers. So it would be good to see there reasoning.

Please do fell free to call me today on [REDACTED] if you want to discuss anything.

All the best,

[REDACTED]

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[REDACTED]

[REDACTED]

Address:

[REDACTED]

[REDACTED]

w: <http://www.surgewatch.org>

w: <https://www.southampton.ac.uk/oes/coastal>

[REDACTED]

On 27 Feb 2024, at 16:40, [REDACTED] wrote:

[REDACTED]

**CAUTION:** This e-mail originated outside the [REDACTED]

[REDACTED],

You may remember that I highlighted in our November 2023 Expert Panel meeting that I would seek your input on Sizewell C (SZC) Ltd's updated credible maximum scenario for climate change related to extreme still seawater level early in 2024.

SZC Ltd has proposed a revised credible maximum scenario value from the UKCP09 H<sup>++</sup> value previously used. The previous and revised values, and their breakdowns, are summarised in the table below. Whilst reports [1] and [2] (cited below) are claimed to be the basis of the revision, SZC Ltd has not provided information as to how the revised values have been derived, beyond one PowerPoint slide (attached). I was expecting a technical note from SZC Ltd justifying the revised value by early 2024 for input into my assessment for nuclear site licence grant. SZC Ltd was not able to provide this technical note in time for my assessment.

Once I have the technical note, I will be looking to arrange a detailed review by the Expert Panel. However, to support my assessment, please can you advise whether the revised figures appear broadly reasonable, i.e., within the region of UK credible maximum sea level rise estimates for 2110 in current studies/literature.

Value	Mean sea level rise (m)	Downward land movement (m)	Extreme skew surge increase (m)	Credible maximum 2110 (m) [Total]
<b>Previous value</b> UKCP09 H <sup>++</sup> origin	+2.12 (includes downward land movement)		+1.0	<b>+3.12</b>
<b>Revised value</b>	+2.4	+0.1	+0.3	<b>+2.8</b>

I appreciate that this is a complex area, so I am just looking for a broad steer from yourselves at the current time.

I'm happy to discuss.

Thank you,



## References

[1] Climate Science Special Report, Fourth National Climate Assessment, Volume I, USGCRP, 2017

<https://www.nrc.gov/docs/ML1900/ML19008A410.pdf>

[2] Upper Limit for Sea Level Projections by 2100, S Jevrejeva et al, Environmental Research Letters, Volume 9, 2014

<https://iopscience.iop.org/article/10.1088/1748-9326/9/10/104008/pdf>



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<Credible Maximum Climate Change Allowance on EHSL - February 2023 Level 4.png>

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