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Your Ref:  
Our Ref: 91973

Mr Jack Patten  
EIA Advisor  
The Planning Inspectorate  
Environmental Services  
Operations Group 3  
Temple Quay House  
2 The Square  
Bristol, BS1 6PN

17<sup>th</sup> March 2025

Dear Mr Patten

**Nationally Significant Infrastructure Project  
H2NorthEast Limited EN0710005  
Scoping Consultation Stage**

Thank you for including the UK Health Security Agency (UKHSA) in the scoping consultation phase of the above application. ***Please note that we request views from the Office for Health Improvement and Disparities (OHID) and the response provided below is sent on behalf of both UKHSA and OHID.*** The response is impartial and independent.

The health of an individual or a population is the result of a complex interaction of a wide range of different determinants of health, from an individual's genetic make-up to lifestyles and behaviours, and the communities, local economy, built and natural environments to global ecosystem trends. All developments will have some effect on the determinants of health, which in turn will influence the health and wellbeing of the general population, vulnerable groups and individual people. Although assessing impacts on health beyond direct effects from for example emissions to air or road traffic incidents is complex, there is a need to ensure a proportionate assessment focused on an application's significant effects.

Having considered the submitted scoping report we wish to make the following comments and recommendations:

## **Environmental Public Health**

We understand that the promoter will wish to avoid unnecessary duplication and that many issues including air quality, emissions to water, waste, contaminated land etc. will be covered elsewhere in the Environmental Statement (ES). We believe the summation of relevant issues into a specific section of the report provides a focus which ensures that public health is given adequate consideration. The section should summarise key information, risk assessments, proposed mitigation measures, conclusions and residual impacts relating to human health. Compliance with the requirements of National Policy Statements and relevant guidance and standards should also be highlighted.

In terms of the level of detail to be included in an ES, we recognise that the differing nature of projects is such that their impacts will vary. UKHSA and OHID's predecessor organisation Public Health England produced an advice document *Advice on the content of Environmental Statements accompanying an application under the NSIP Regime*<sup>1</sup>, setting out aspects to be addressed within the Environmental Statement<sup>1</sup>. This advice document and its recommendations are still valid and should be considered when preparing an ES. Please note that where impacts relating to health and/or further assessments are scoped out, promoters should fully explain and justify this within the submitted documentation.

Emissions of amines have been scoped out of further assessment by the applicant due to the closed loop nature of the carbon capture process. This assessment seems justified as any residual amines will be removed from the carbon capture process in the hydrogen gas, which is piped off site, or in the carbon dioxide which is taken for underground storage.

Our position is that pollutants associated with road traffic or combustion, particularly particulate matter and oxides of nitrogen are non-threshold; i.e, an exposed population is likely to be subject to potential harm at any level and that reducing public exposure to non-threshold pollutants (such as particulate matter and nitrogen dioxide) below air quality standards will have potential public health benefits. We support approaches which minimise or mitigate public exposure to non-threshold air pollutants, address inequalities (in exposure) and maximise co-benefits (such as physical exercise). We encourage their consideration during development design, environmental and health impact assessment, and development consent.

## **Recommendation**

We ask the applicant to confirm the effectiveness of the closed loop recovery system used in the carbon capture process and if necessary, we ask them to confirm that amines are destroyed at either the flare or as part of the hydrogen production process.

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<sup>1</sup>  
<https://khub.net/documents/135939561/390856715/Advice+on+the+content+of+environmental+statements+accompanying+an+application+under+the+Nationally+Significant+Infrastructure+Planning+Regime.pdf/a86b5521-46cc-98e4-4cad-f81a6c58f2e2?t=1615998516658>

The applicant should consider the Environmental Targets Regulations 2023 PM<sub>2.5</sub> maximum annual mean target for 2040 if they haven't done so already.

For potential EMF health impacts, UKHSA requests more information about the electrical infrastructure associated with the project. Please refer to the following code of practice, which defines the criteria for demonstrating compliance with the public exposure guidelines, including the operational conditions for scoping out electrical infrastructure:

<https://assets.publishing.service.gov.uk/media/5a796799ed915d07d35b5397/1256-code-practice-emf-public-exp-guidelines.pdf>

More information is available in the following advice document produced by Public Health England, a UKHSA predecessor body:

<https://khub.net/documents/135939561/390856715/Advice+on+the+content+of+environmental+statements+accompanying+an+application+under+the+Nationally+Significant+Infrastructure+Planning+Regime.pdf/a86b5521-46cc-98e4-4cad-f81a6c58f2e2?t=1615998516658>

### **Recommendation**

We request that the ES clarifies this and if necessary, the proposer should confirm either that the proposed development does not impact any receptors from potential sources of EMF; or ensure that an adequate assessment of the possible impacts is undertaken and included in the ES.

Yours sincerely,

On behalf of UK Health Security Agency

*Please mark any correspondence for the attention of National Infrastructure Planning Administration.*