

FERN Submissions for 2nd June 2021

Supporting Submission No. 20026497 by Michael Noble, Farnham Barn

7 Noise & Pollution Impact Assessment

1 It is obvious that the current chosen alignment for this bypass, which will ultimately be used for many years extensively by Heavy Goods Vehicles delivering to and from the site of the proposed new Nuclear Power Station Sizewell C, will have a devastating and catastrophic effect on the community in which we live and will be with most of us for the rest of our lives.

2 The construction is scheduled to last for 18 to 24 months with long working hours and without any mitigation or thought given to residents or affected businesses. We have no way of being sure just how long this devastating disruption during the construction will actually be with us. We do have the consistent history from the three previous EDF nuclear power station constructions at Flamanville in France, Olkiluoto in Finland and our own history at Hinkley Point in Somerset. All three of these have been beset with problems regarding massive budget over-runs and total failure on completion dates.

3 The proximity of this alignment to our community needs to be seen to be believed. At present, we are mostly a community of retirees. For most of us, we have reached a stage of life where a change in location and lifestyle is traumatic and not really an option.

4 During construction we would be living with a very high impact on our health and wellbeing, on the ecology, and from soiling from all the excessive dust that will be generated. If EDF's alignment becomes operational, our lives and health will be confronted daily by poisonous toxic gases and fumes, constant concerns regarding threats to our health from the noise, vibration, and smell, and suffer artificial lighting causing the loss of Suffolk's renowned dark skies.

5 It is a well-known fact from those that have had the misfortune to have a major road constructed very close to their home that the noise and pollution is excessive, and consequently so are the health risks. Hinkley Point residents have been very clear on that.

6 Noise (DCO. 6.6. Vol 5. Chapter 4. Noise and Vibration).

In para 4.14. our homes are not recorded correctly. For Farnham Hall, please read 11 individual dwellings within the Farnham Hall estate. This myth has been perpetuated by EDF from the very beginning.

4.21. Concludes summary effect on the construction phase is either minor adverse, negligible or not significant. How can that be when;

4.16. Our homes (Farnham Hall) rate moderate/ major adverse to significant and,

4.18 (Farnham Hall), is major adverse day and night in peak construction in 2023?

7 Air Quality (DCO. 6.6. Vol 5. Chapter 5. Air Quality)

Para.4.6 in Table 5.10. Why do NO₂, PM₁₀ and PM_{2.5} concentrations go down from baseline figures at SX8 and SX9 when the A12 proximity is so much closer to SX8 and SX9 if EDF's road is built?

The tables conclude that air quality effects would be not significant. This can't possibly be the case.

From WHO reports, road traffic remains the biggest source of noise pollution in the UK. Noise from road traffic is the second most harmful environmental stressor behind air pollution, the transport sector being the major cause. Health effects relating to noise include hearing impairment, psychiatric conditions such as depression and anxiety, and cardiovascular disease. Heavy traffic increases vehicle emissions and degrades ambient air quality. WHO studies show that transport related air pollution contributes to an increase risk of death, particularly from cardiopulmonary causes, and increases the risk of non-allergic respiratory symptoms and disease.

Dr Yutong Samuel Cai epidemiologist at Imperial College London states "*There's consistent evidence that road traffic noise leads to heart attacks*". He recently analyzed the health and data of 356,000 people in Britain and Norway and found that long-term exposure to traffic noise affects our blood biochemistry, over and above the effects of exhaust fumes.

A study from Barts and the London school of Medicine has linked noise pollution to instances of type 2 diabetes.

A report by Kings College London has revealed that living near a busy road in the U.K. could increase the risk of developing lung cancer by 10%. The research is supported by a group of 15 health and environment NGOs including The British Lung Foundation, Asthma UK and the UK Health Alliance on Climate Change who assessed 13 different health risks caused by pollution in 13 cities across the UK and Poland. It uncovered that living within 50 meters of a major road could significantly increase the chances of developing such conditions as heart disease, strokes, bronchitis, as well as lung cancer and reduced lung function in children.

Vehicle emissions have become the dominant source of air pollutants including carbon monoxide (CO), carbon dioxide (CO₂) volatile organic compounds (VOCs) or hydro carbons (HCs), nitrogen oxide (NO_x) and particulate matter (PM). Transport Research Board TRB 2002)

These emissions contribute to risk of morbidity for drivers and commuters and individuals living near roadways, as shown by epidemiological studies of proposed vehicle emission standards, and environmental impact assessments for specific road projects (WHO 2005) Health Effects Institute (HEI 2010)

8 The difficult part for us to understand is how little human lives can apparently matter. We are an ageing community, mostly pensioners and with two severely disabled young men who walk daily with their carer where the new road would be. (on EDF's alignment) The above effects would be devastating to us all, and it is unnecessary. Instead of this deeply flawed EDF proposal, the alternate route to the east put forward by our Parish Council must be examined objectively and impartially. We do understand and support the need for a bypass, as a matter of principle, but every effort possible should be made to relieve our community (which is part of Farnham Village) from this unnecessary and wrongful harm to our lives. The harm to the built and natural environment, and people's lives, to be caused by EDF's alignment is so great that it simply should not be accepted.