

1. Potential significant local environmental effects, including nuisance, of foreseeable releases

1.1 Air pollution

Adherence to the permit conditions (current and as anticipated) mean that persistent visible emissions should not occur. The site maintains procedures to adjust operations should any such emission occur.

Abatement plant is maintained and monitored so that particulate and elemental emissions from point sources such as stacks are within compliance with permit conditions (both current and as anticipated).

Installation of two off 20t induction furnaces will not affect these parameters.

There is an existing risk for significant local environmental effect from the failure of abatement plant to the existing AOD vessel; this is detailed in appendix C2, table 2.

1.2 Noise nuisance

The installation of two 20t induction furnaces will not increase the noise profile of the site. No increased noise nuisance in the local neighbourhood is anticipated.

1.3 Emergency situations

Emergency situations such as fire or spillage have the capacity to pollute the local environment. The site maintains emergency response protocols and emergency plans to deal with these emergency situations. Installation activities are otherwise actively managed to prevent or minimise the risk of emergency situations.

1.4 Traffic nuisance

No significant increase in traffic and associated releases (fume, noise, and nuisance) is anticipated.

1.5 Greenhouse Gas Emissions

The installation of two 20t induction furnaces is not anticipated to significantly increase any greenhouse gas emission from the site, which in any event are not significant in a global context and which on their own should not cause any significant local effect. It is likely the new furnaces will increase the efficiency of the site resulting in a reduction of greenhouse gas emissions.

1.6 Note concerning the adjacent Caldon Canal

The Caldon Canal, a branch of the Trent and Mersey canal, is situate to the North of the site. There are no process discharges into the canal and no processes or storage facilities immediately adjacent to the canal that could give rise to leaks or similar into the canal waters.

2. Significant effects on sites of special scientific interest (SSSIs)

The relevant DEFRA website¹ has been checked as at 15th April 2022 and there are no SSSI's adjacent to the site that could be significantly affected by any release from the installation.

3. Environmental Impact Assessments

Screening opinions have been sought in context of previous planning applications for the foundry site. At this time the site was an LA-PPC Part B installation. No Environmental Impact assessment was required.

A screening opinion was sought for the planning application for the Jubilee site when the site was developed and no Environmental Impact Assessment was required. At that time no processes covered by the LA-PPC Part B permit were carried out on the Jubilee site.

¹ <http://magic.defra.gov.uk/MagicMap.aspx>