1. Non-Technical Summary

This document presents the technical supporting documentation in support of an application by Johnson Matthey PLC (JM) to vary Environmental Permit number EPR/KP3536UC.

The permit variation is to cover a number of changes to the site activities including:

- An increase in the capacity of activities AR2 and AR4 to 60,000 kg / annum;
- Installation of additional plant and buildings to the Pilot Plant for activities AR2 and AR4 to achieve the increased throughput;
- Relocation of some of the existing ovens / kilns within the MSC into a new extension to the existing building area – used for activity AR1;
- The introduction of a new Section 4.2 Part A(1) (a) (iv) activity for producing inorganic chemicals (AR5) for Metals Dissolving which is to be located within a new building located within the existing drum store area;
- Extension of the Installation boundary to accommodate the new buildings for activities AR1 and AR2, and the extension of the drum park;
- To extend the range of materials for Activity AR1 in Table S2.1 of the permit to include Tin and Silicon;
- To extend the range of metal salt types for Activity AR1 in Table S2.1 of the permit to include fluoride and ammonium salts;
- To extend the range of materials for Activity AR2 in Table S2.1 of the permit to include Boron Niobium, Cerium, Molybdenum, Tin and Antimony;
- To extend the range of materials for Activity AR4 in Table S2.1 of the permit to include Niobium, Cerium, Molybdenum, Tin and Antimony;
- The installation of additional emission points to air associated with the proposed changes; and
- The addition of a Reverse Osmosis water treatment unit to support activity AR5 with an associated discharge of reject water to the site drainage systems via emission point W1 to the private drainage system, connected to the CF Fertiliser effluent handling system, which discharges to the River Tees via RTO1.

In addition to the above changes, a request is also being made for a minor alteration to the text within the existing permit to reflect minor errors / amendments that have been identified since the Permit was granted.

The proposed changes are understood to constitute a substantial change.

The supporting documentation provides a more detailed explanation of each of the changes required and also presents an assessment of the potential environmental implications associated with the proposed changes.

Reviews have also been undertaken to assess:

- Compliance with Best Available Techniques;
- Environmental risk management at the Installation; and
- Potential Air Quality Impacts.

The assessments demonstrate that through the application of appropriate design and specification of plant supported by site management controls, no significant environmental impacts are anticipated.