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## Proposed development of a new foundry in Germiston, Gauteng

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Status: SUBMITTED

HeritageAuthority(s): SAHRA  
PHRA-G

Case Type: Section 38 (8) - Statutory Comment Required

Development Type: Commercial

### ProposalDescription:

The proposed new foundry will entail the following infrastructure and activities: Renovation of an existing building to house the foundry. Installation of a scrap pre-treatment system (sorting, separating, shredding, pre-heating) Installation of two 8 tonne reverberatory furnaces, each with a 10 tonne holding furnace, as well as one Vortex pump furnace with a 10 tonne holding furnace for scrap aluminium melting. 2000 tonnes per month of aluminium alloy will be produced from approximately 2400 tonnes of scrap. This will also involve a more targeted extraction of emissions. Aluminium alloy casting will use a belt conveyor mould system. Construction of a building on the eastern portion of the property for the recovery and storage of dross[1]. Approximately 10 - 15 % of the residual aluminium in the dross will be recovered and returned back to the alloying process. The remaining, unusable dross, is then further processed off-site before being disposed of. The dross recovery system will entail milling, screening and magnetic separation. A pollutant emissions abatement system will be installed. The system will include localized hood extraction above each of the furnaces, as well as an apex extraction system to extract fumes within the foundry building. The extracted fumes will pass through a bag filter before discharging via a stack of appropriate height to atmosphere. A 4 tonne furnace for melting scrap copper will be installed. 250 tonnes per month of scrap will be melted in order to produce 200 tonnes per month of copper. Weatherproof storage areas for the raw material, product and cool dross. A cooling tower to cool the water used to release the ingots from the moulds. This water is continuously reused in a closed loop. A weighbridge and scale for weighing receiving raw material. In terms of engineering services (water supply, stormwater management, electricity supply, sewerage reticulation), the facility will utilize existing municipal services and the existing site access points from Shaft Road. Importantly, no change of character to the site is anticipated.

ApplicationDate: Thursday, January 13, 2022 - 12:59

CaseID: 17786

OtherReferences:

Heritage Reports: Heritage Screener: Germiston Foundry

ReferenceList:

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