STATEMENT OF BASIS

Lee Levant/Gulf Coast Metals, Inc.
Secondary Aluminum Processing
Facility ID No.: 0570019
Hillsborough County

Title V Air Operation Permit Renewal
FINAL Permit No.: 0570019-012-AV

This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Gulf Coast Metals, Inc. is a secondary aluminum melting facility that processes scrap aluminum received from a variety of business and recycling centers. Two rotary furnaces process scrap aluminum by melting the charge to a molten state and pouring off the melted aluminum into molds. The aluminum is then allowed to cool and harden for eventual transport off-site. A holding furnace is also used for processing of the melted aluminum. Some of the molten aluminum from the rotary furnaces is transported to the holding furnace and then fed to a conveyor system. The conveyor contains molds of deox or ingots that are water quenched to aid in cooling. The hardened aluminum is then removed from the molds and transported off-site. The facility is also permitted for a dual-chambered sweat furnace that operates in conjunction with the existing holding furnace. The sweat furnace separates aluminum from other metals by controlling the temperature to just above the melting point of aluminum. Once molten, the aluminum flows into the holding furnace and the slag and dross is then periodically removed from the primary chamber.

Rotary Furnaces #1 and #2 are fired with burners rated at 4 MMBtu/hr and 6 MMBtu/hr, respectively. Loading is limited to 4500 lb/hr of scrap to each furnace and the combined emissions are controlled through a lengthy duct connected to a single 4-chamber, lime-injected baghouse. Large hoods are located directly over the rotating furnaces to capture emissions induced by a fan to the baghouse. A bag leak detection monitor is required for each cell on the baghouse and the units are required to follow an Operation, Maintenance and Monitoring Plan that calls for frequent observation and maintenance of the baghouse and its monitoring equipment, along with the furnace operation itself and the ductwork. Since the current operation does not use the sweat furnace, the holding furnace is only temporarily storing molten aluminum and vents directly to the atmosphere. The sweat furnace emissions are designed to feed into the holding furnace chamber prior to exhaust. If the sweat furnace is reengaged, the emissions from the holding furnace chamber will be

ducted through an afterburner prior to exhaust, as it was originally installed. The afterburner is required to operate at a minimum of 1600ºF, or at a temperature established by a performance test, during any melting of aluminum in the sweat furnace. Monitoring and maintenance of the afterburner are required to ensure continual compliance. CAM does not apply for this facility.

Also included in this permit are miscellaneous insignificant emissions units and activities.

This facility is not a major source of hazardous air pollutants (HAPs). The facility is subject to the NESHAP for secondary aluminum processors: 40 CFR 63, Subpart RRR.