Company Overview

Iluka’s United States mining, concentrating and processing operations are located in Virginia, approximately 80 kilometers from the State’s capital, Richmond. Mining and concentrating activities currently occur at two locations; Brink and Concord. Heavy mineral concentrate (HMC) is processed into the final products of chloride ilmenite and zircon at the nearby Stony Creek mineral separation plant.

Iluka’s USA mining and processing activities commenced at the Duval Upland ridge deposit in north-east Florida, in 1972. Iluka commenced mining in Georgia at the Lulaton deposit in 2004. Both the Florida and Georgia operations ceased in 2005 and 2006 respectively, with the majority of Georgia reclamation work complete by 2010.

Mining commenced in Virginia at the Old Hickory deposit in 1998, associated with the construction of the Stony Creek mineral separation plant. The Old Hickory mine site is now in the final stages of reclamation, and its concentrator has been shifted to the current Brink operation which began operating in 2009.

Dry mining techniques are used at Brink and Concord, with ore mined by excavators and fed into a mobile mining unit plant. The average strip ratio is zero. The mining unit removes oversized material and ore is slurry pumped to the wet concentrator plant. The Brink and Concord concentrators each have a feed capacity of 264 tons per hour and utilize gravity separation to separate various fractions in the ore to form HMC.

The Stony Creek mineral separation plant processes HMC into final products through a series of screening, electrostatic and electromagnetic separation stages. The mineral separation plant accepts HMC from both Concord and Brink and has an annual processing capacity of approximately 475 thousand tons.

Final Products

The majority of the Virginia ilmenite is sold domestically within the United States for the production of titanium dioxide pigment. Virginia zircon is one of the highest quality ceramic opacifiers, making it attractive to high-end ceramic tile and sanitary-ware producers. In addition, low levels of impurities make it sought after as a feedstock for zirconia and refractory producers.

Program Highlights

- Teamwork
- Development of a Professional Maintenance and Reliability Team
- Strategy: The Path Forward
- Planning for the Future
- Strive to move farther left on the I-I-P-F Curve