APPENDIX E. ESTIMATED ANNUAL HAZARDOUS WASTE GENERATION

1. Hazardous Material Inputs
   a. Chlorine Gas – 2, 2 ton cylinder (1960 Lbs Chlorine gas) on site at any one time, annual consumption of approx. 30,000 Lbs of Chlorine gas
      i. Used to turn impurities to salts and removed as dross. Any excess emissions are controlled per the air permit.
   b. HCL – 3,000 Gal in 10 300 Gal totes on site at any one time, annual consumption of approx. 24,000 Gallons HCL at 35 Wt %.
      i. Used to clean the aluminum strip on the CASH line and any emissions are controlled per the air permit

2. Petroleum Product Inputs
   a. Hot Mill Rolling Coolant – Water / Oil Emulsion at 10% oil or 50,000 Gals oil on site at any one time, annual consumption of approx. 100,000 Gal oil.
      i. Used during hot rolling and any emissions are controlled per the air permit
   b. Cold Mill Rolling Coolant – Mineral Oil based 140,000 Gals oil on site at any one time, annual consumption of approx. 80,000 Gal oil.
      i. Used during cold rolling and any emissions are controlled per the air permit

3. Hazardous Waste - Annual amounts to be disposed to landfill or recycled by certified 3rd parties.
   a. Dross - 9,900,000 lbs
   b. Cast House Filters - 130,000 lbs of spent bag house filters
   c. Hot Mill Coolant - 240,000 lbs of used coolant
   d. Hot Mill Filter Cloth - 260,000 lbs of spent filter media cloth
   e. Cold Mill Coolant - 160,000 lbs of spent coolant
   f. Cold Mill Filter Cloth - 312,000 lbs of spent filter media diatomaceous earth
   g. CASH Line Dry Lube - 28,600 lbs of dry lube waste
   h. Waste Water Treatment - 71,200 lbs of oil flocculant