

Low Energy Start-up for Low Energy Cells

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Abstract

Along with the development of low energy cells, Hydro developed a range of operating strategies for low energy cell operation. Amongst these, a method for starting-up cells using as little energy as possible, along with eliminating anode effect-producing PFC emissions was developed. This paper presents the results and benefits of such procedures, that cover protection of the cathode surface, reduced energy during preheating and early life and emissions elimination during start-up.

Keywords: Low energy start-up of aluminium electrolysis cells; preheating of cells; preparation of cell preheat.