

ANALYSIS OF GAS FLOW AND MIXING IN A ROTARY KILN WASTE INCINERATOR

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ABSTRACT

Rotary kiln incinerators are widely used in the treatment of liquid and solid hazardous wastes. However, the complex transport and chemical processes within the system are still not well understood. The refractory failure caused by liquid slag attack is related to the gas flow and gas temperature distributions. The current paper describes the gas flow and mixing behaviour in an industrial rotary kiln incinerator for disposing hazardous wastes, by using a general purpose CFD-code PHOENICS. The results indicate that the gas flow and mixing inside the kiln is very complicated. The 3-dimensional gas flow will help to better understand the heterogeneous temperature distribution inside the kiln, which will affect significantly the bed behaviour and refractory lining wear. In the future, heat transfer within the kiln will be included in this research. The numerical predictions will provide useful information for improved process control.

INTRODUCTION

Various incineration technologies are available for handling different types of hazardous wastes, such as rotary kiln, fixed hearth, and fluidised bed incinerators. The rotary kiln incineration system is regarded to be the most versatile for its ability to handle solid, liquid, and sludge wastes at a high throughput. Figure 1 illustrates a layout of the rotary-kiln incineration system for hazardous wastes used at AVR Chemie, and Figure 2 shows a closer view of the rotary kiln.

The rotary kiln forms the primary combustion chamber, being a steel cylinder lined with refractory bricks for insulation and protection against slag attacks. The cylinder is mounted at an angle of 1-3° from the horizontal and rotates at a speed of 0.2 to 0.3 rpm. In combination with a secondary combustion chamber, waste-heat recovery boiler, and flue-

gas cleaning system, rotary kiln incinerators have been widely used as a thermal treatment system integrated into an industrial complex to recover energy from wastes (Sigg, 1991).

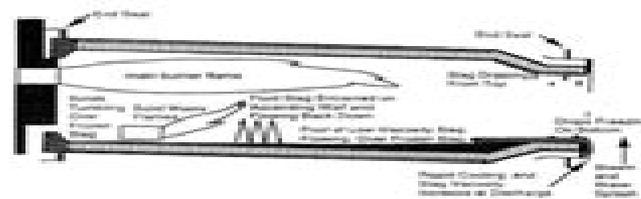


Figure 2: Illustration of the rotary kiln (Voorst, et al., 1996).

Although the rotary kiln incinerators are routinely being used in the treatment of liquid/solid hazardous wastes, the complex transport and chemical processes occurring within these systems are not well understood (Leger et al., 1993). The operation of industrial kilns has been an art learned by experience. The system is normally over-designed and operates well below the regulatory emission limits, but at a cost of capital and fuel. The refractory failure caused by liquid slag attack leads to frequent downtime and high cost for refining the system. If the processes governing the destruction of waste within the kiln can be well characterised and modelled, improvements in performance and economics of the rotary kiln incinerator may be realised.

The thermal behaviour of the kiln is strongly affected by the fluid-dynamics of the combustion gas in the kiln: gas flow and mixing pattern, and the energy and temperature

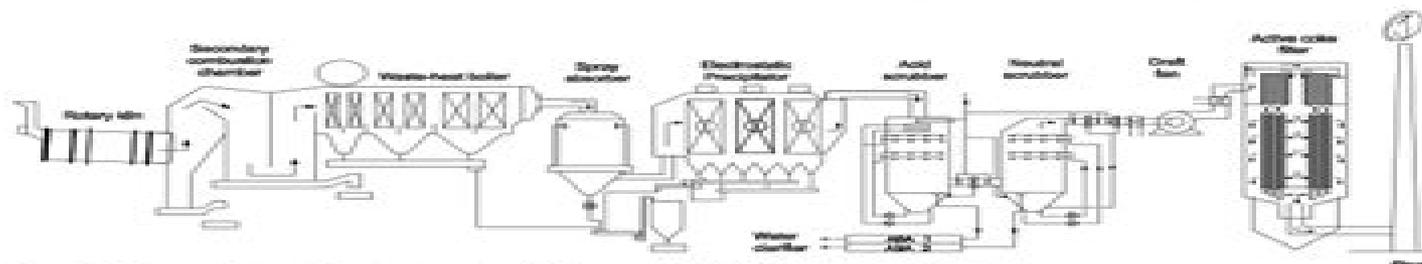


Figure 1: A general layout of an incineration facility used at AVR Chemie, the Netherlands.

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