

MEDICAL WASTE INCINERATOR



Plant Type: Medical waste incinerator

Plant Location: USA

Process Description: Incinerator – Boiler – Dry Scrubber (sodium sesquicarbonate) – Baghouse – Stack

Number of Process Lines: 2

Number of Process Lines with REMEDIA D/F filters: 2

Feed rate per line: 68 tons/day

Flow rate per line: 50,000 Nm³/hr, dry

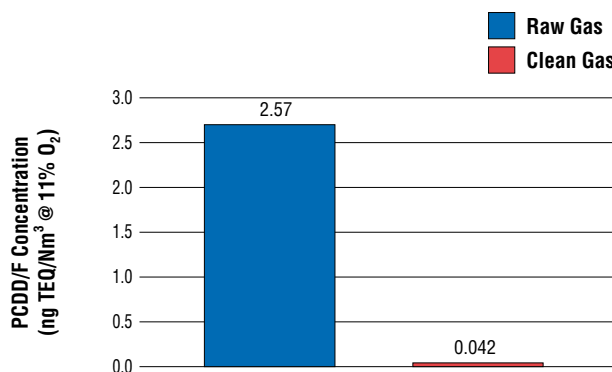
Baghouse Temperature: 180°C - 200°C

Filter area per line: 1177 m²

Date of REMEDIA D/F catalytic filter system Installation: May - June 1999

Before Installation: Plant personnel identified a need to add PCDD/F control to meet future emissions guideline. Powdered activated carbon (PAC) was eliminated from consideration based on new equipment requirements and potential liability associated with dioxin-contaminated residue disposal.

After Installation: The emissions of PCDD/F are below 0.1 ng TEQ/Nm³ @ 11% O₂, and substantially lower than the new emissions guideline and historical values. Key advantages of the REMEDIA D/F catalytic filters over PAC technology are 1) Destruction of PCDD/F instead of adsorption on PAC, 2) No need to dispose of contaminated PAC, and 3) No new equipment required to store, handle, and inject PAC.



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