

EXCEL AIR



SEMINAR ON BOILER EMISSION CONTROL SYSTEM - 150 MG/NM3, The Pavilion, Sandakan, 3 August 2017

VH BOILER AND ENERGY SYSTEM SDN BHD (VHB)
In association with EXCEL AIR ENGINEERING SDN BHD
Presented by
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1

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IN THIS PRESENTATION

- Air Pollution after POM Boilers
- CEMS Considerations
- VORSEP Introduction
- VORSEP Reference List
- VH Installations in United Plantation

2

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VORSEP VIDEO

- <D:\John\General\Presentations\VORSEP TUBE.wmv>

3

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VORSEP PROJECT EXPERIENCE

- Biomass Boilers in Malaysia: 34
- POM Boilers Honduras: 5
- Biomass Boilers Australia, New Zealand: 6
- Thailand: 2
- Palm Oil Mill Boilers: 35
- Palm Oil Mill Boilers meeting 150 mg/Nm³: 17
- Biomass Boilers: 56

4

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Case Study: Ulu Basir (UP); Jenderata (UP)

5

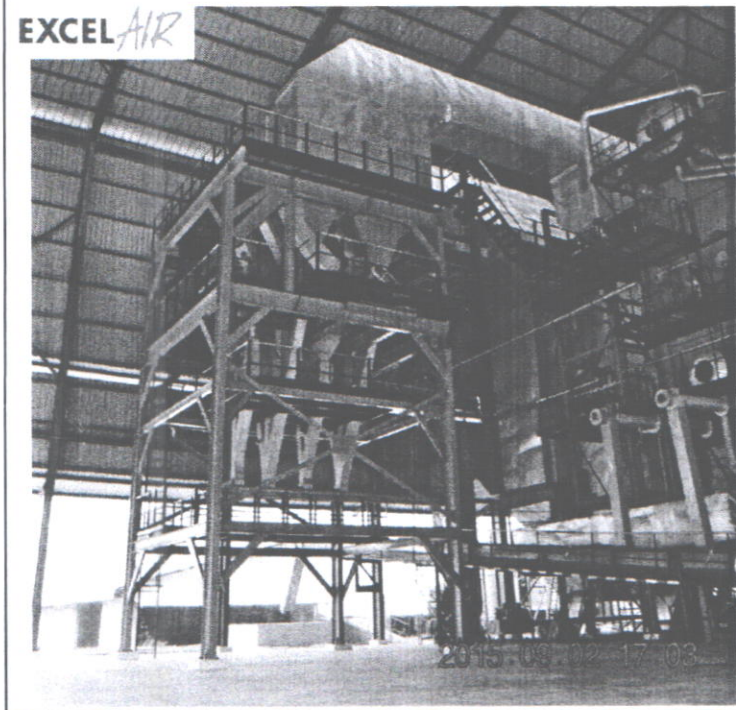
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EXISTING VICKERS HOSKINS BOILER

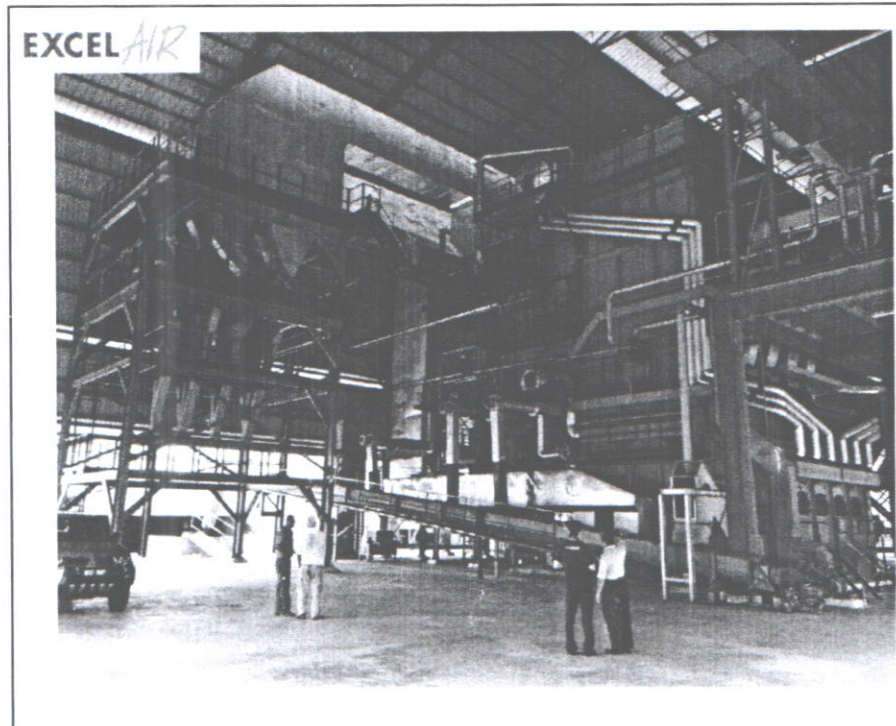
- 45 TON BOILER
- Retrofitted with VORSEP TAS100 Double Stage
- Remove Existing Cyclones

6



Result

Average 126 mg/Nm³,
over the last two years
Opacity below 20%



Two Year Later...

- No visible wear on tubes
- Only service on dust discharge valves and scavenge fan



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New Installation in Jendarata

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