

# ADVANCED COMBUSTION ENGINEERING PTY. LTD.

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## **WESTON ALUMINIUM PTY LTD**

Level 4, 2 Help Street  
Chatswood NSW 2067

7 May 2018

Dear Garbis

We now have the pleasure of presenting our manufacturers guarantees in regards to the design and supply of incineration and air pollution the equipment for the proposed Weston Aluminium Waste Thermal processing Facility.

Yours faithfully



Michael Coccia  
Advanced Combustion Engineering

## **PERFORMANCE GUARANTEE**

The waste incineration plant shall be guaranteed, for a period of 12 months after the completion of commissioning to meet the specified operating parameters and air quality emission standards when burning wastes at the specified design capacity (or less) and when operated by trained personnel and maintained in full accordance with Advanced Combustion Engineering operation and maintenance manuals. Advanced Combustion Engineering reserves the right to be present and to monitor the operation of the incineration facility and to observe all testing procedures.

### ***Incinerator Emission Standards***

The proposed incineration and air pollution control plant shall be capable of achieving the most stringent emission standards and would readily exceed the emission standards currently required in Australia.

In this application Incineration and Air Pollution Controlled Plant designed and supplied by Advanced Combustion Engineering would be guaranteed to achieve the following air quality air emission standards.

|  |      |                    |
|--|------|--------------------|
| VOC  | 20   | mg/Nm <sup>3</sup> |
| HCl  | 50   | mg/Nm <sup>3</sup> |
| TSP  | 20   | mg/Nm <sup>3</sup> |
| H <sub>2</sub> SO <sub>4</sub> and SO <sub>3</sub> | 80   | mg/Nm <sup>3</sup> |
| Heavy Metals Type I & II Substances                | 1    | mg/Nm <sup>3</sup> |
| Mercury  | 0.2  | mg/Nm <sup>3</sup> |
| Cadmium  | 0.2  | mg/Nm <sup>3</sup> |
| NO <sub>x</sub> (as equivalent NO <sub>2</sub> )   | 200  | mg/Nm <sup>3</sup> |
| Dioxins and Furans                                 | 0.1  | ng/Nm <sup>3</sup> |
| SO <sub>2</sub>                                    | 200  | mg/Nm <sup>3</sup> |
| Carbon Monoxide                                    | 62.5 | mg/Nm <sup>3</sup> |

#### **Notes:**

Dioxin and Furan emission concentrations referenced to Dry conditions, 273K, 101.3kPA and 11 % Oxygen.

The proposed incinerator shall readily comply with guaranteed emission limits at all times when incinerating clinical wastes

We see no issue with the incineration of quarantine and security wastes and believe emissions from the incineration of these waste materials would typically be less than for the incineration of clinical wastes. However, the incineration of other wastes can impact on emissions when significant quantities of these materials are to be treated.

This performance and emission guarantee is therefore limited to a maximum input of 10% other wastes, on an hourly basis.

We do believe that this input waste type limitation is conservative and would recommend that once the incineration facility has been commissioned authorized trial burns be performed to verify the performance of the incineration facility at higher other waste feed rates.

**Signed**

A handwritten signature in black ink, appearing to read "Michael Coccia", with a stylized flourish at the end.

Michael Coccia.  
Director