

A photograph of a large industrial steel mill facility. The image shows a complex network of dark metal structures, including tall chimneys, walkways, and conveyor systems, set against a clear blue sky. The foreground features a large, dark, corrugated metal structure, possibly a roof or part of a building. The overall scene is industrial and somewhat hazy.

# Environmental control in Pig Iron Industries in the States of Minas Gerais

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A photograph of an industrial facility, possibly a steel mill or refinery, featuring a prominent tall metal structure with a platform at the top. The structure is set against a clear blue sky. In the foreground, there are dark, industrial buildings and pipes. The overall scene is industrial and somewhat somber due to the dark tones of the buildings.

# **ENVIRONMENTAL LEGISLATION:**

**DN N° 49/2001**

# EFFLUENT ATMOSPHERIC

## EFFLUENT ATMOSPHERIC

- Charcoal Handling;
- Raw materials Handling;
- Blast furnace - System Cleanness.

### Standards of Launching:

RURAL ZONE : 200mg/Nm<sup>3</sup>;

URBAN ZONE: 100MG/Nm<sup>3</sup> (News Instalation 50 mg/Nm<sup>3</sup>).

# EFFLUENTS LIQUIDS

A photograph of an industrial facility, likely a steel mill, featuring a large, complex structure with a tall chimney and various pipes and walkways. The sky is clear and blue.

EFFLUENT  
LIQUIDS

- ❖ Refrigeration;
- ❖ Gas Cleaning (Scrubber);
- ❖ Slag Cooling/Granulation;
- ❖ Rains waters.

RECIRCULATION

# SOLID WASTE



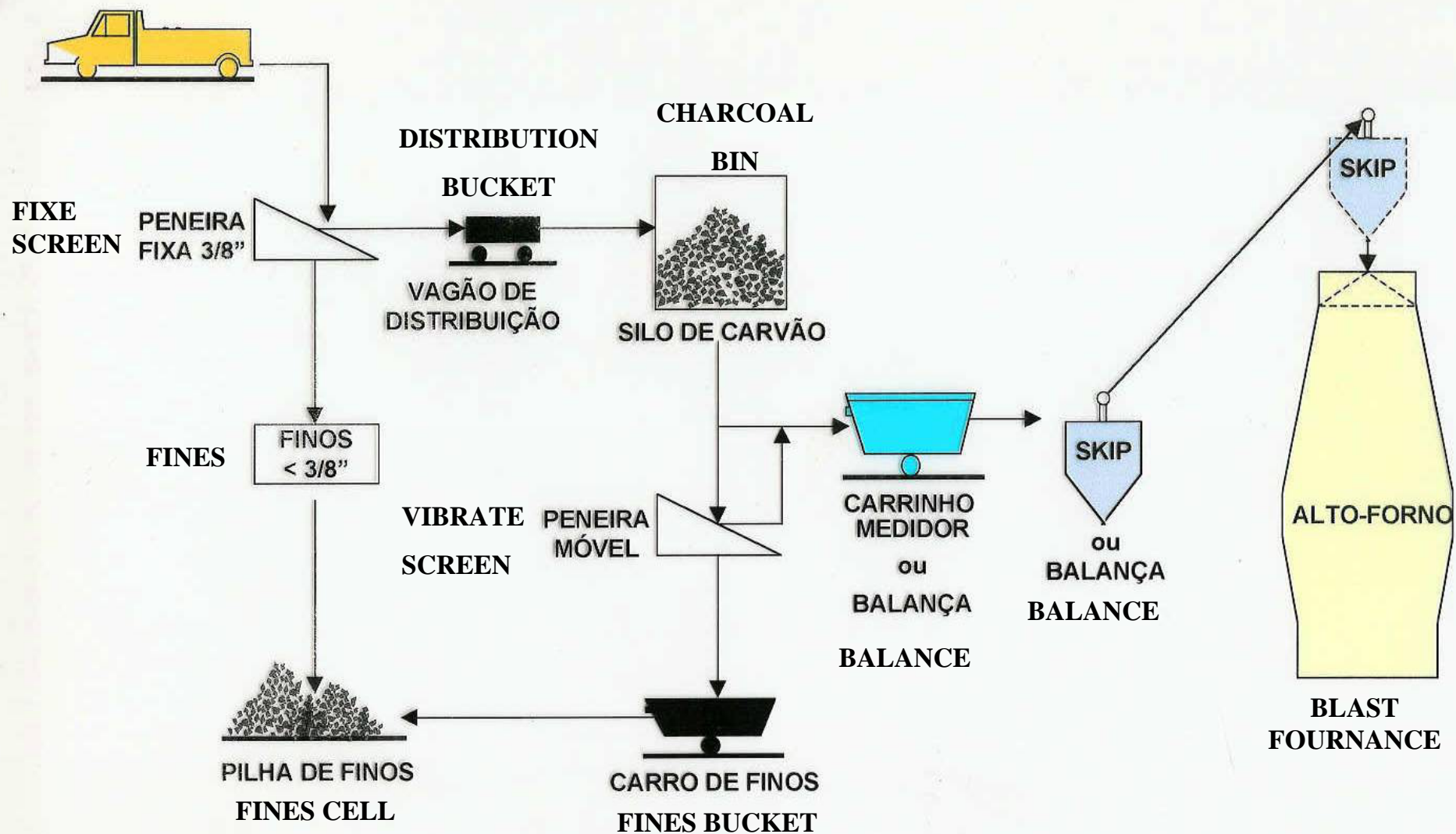
**Solid Waste**

- ❖ Slag;
- ❖ Charcoal Fines;
- ❖ Ore Fines;
- ❖ Gas Cleaning Sludge;
- ❖ Dust Collector

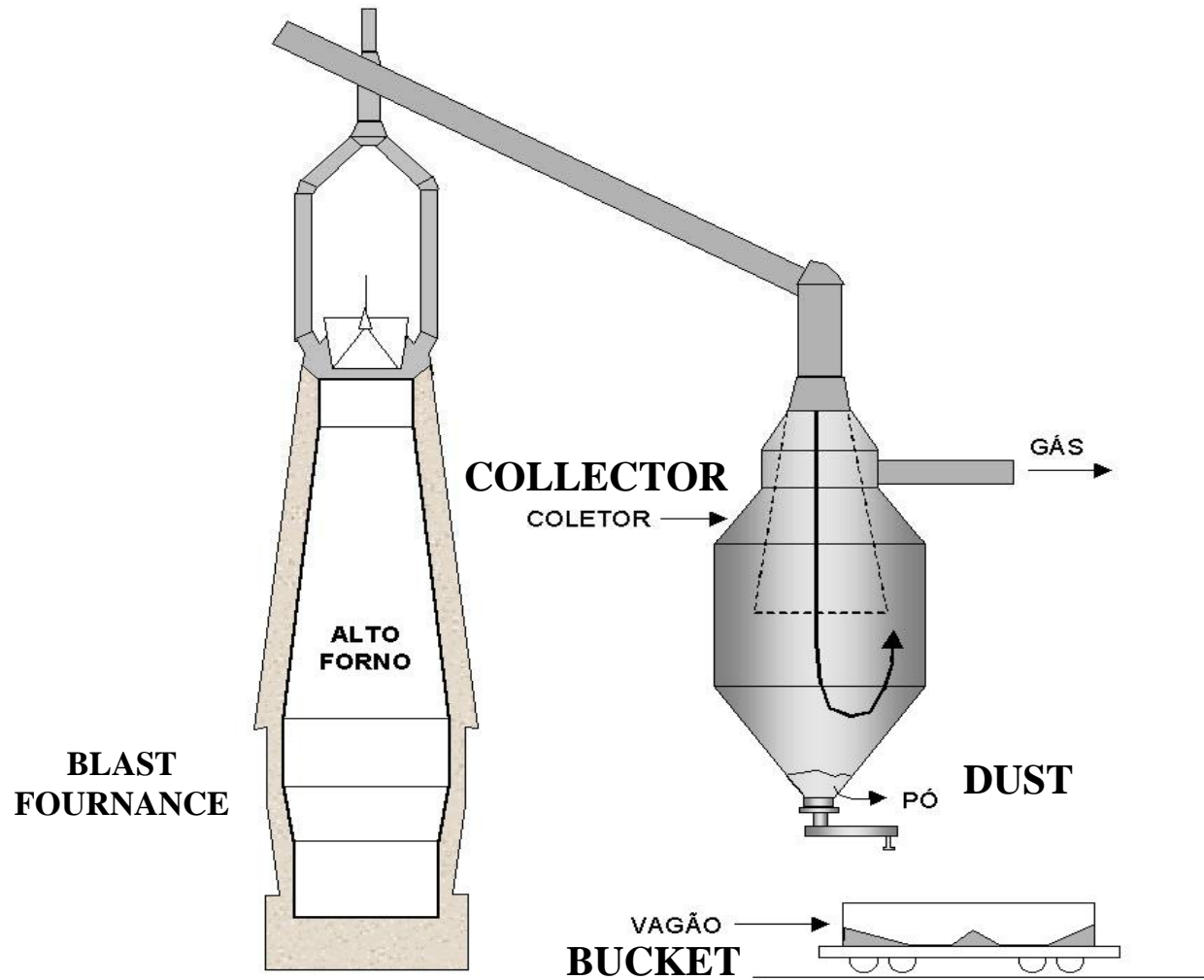
**DISPOSAL;  
TREATMENT;  
SALE (CEMENT/CERAMIC)**



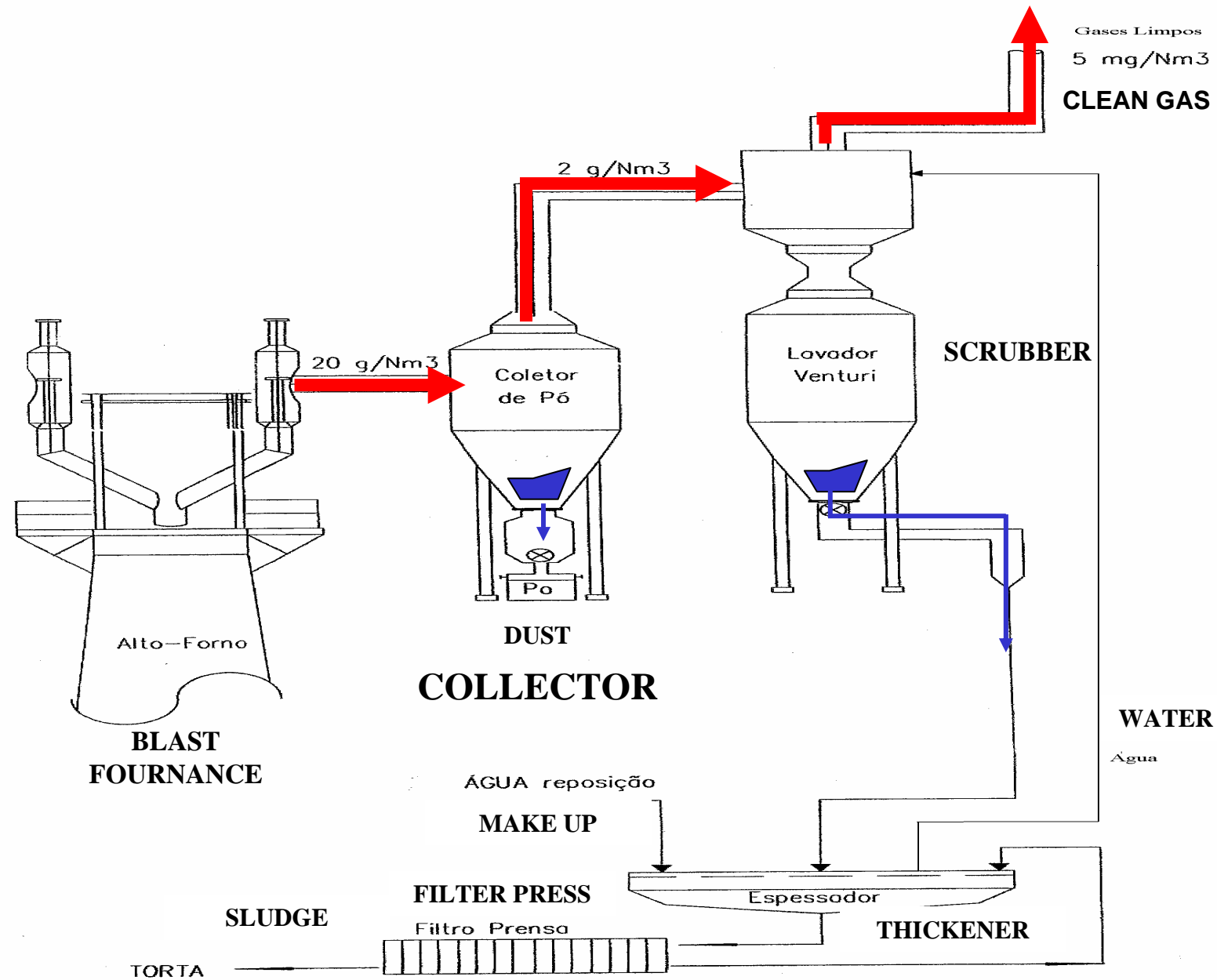
# CHARCOAL FLOW CHART



# DUST COLLECTOR FOR CLEANNING TOP GAS



# SISTEM OF CLEANING TOP GAS



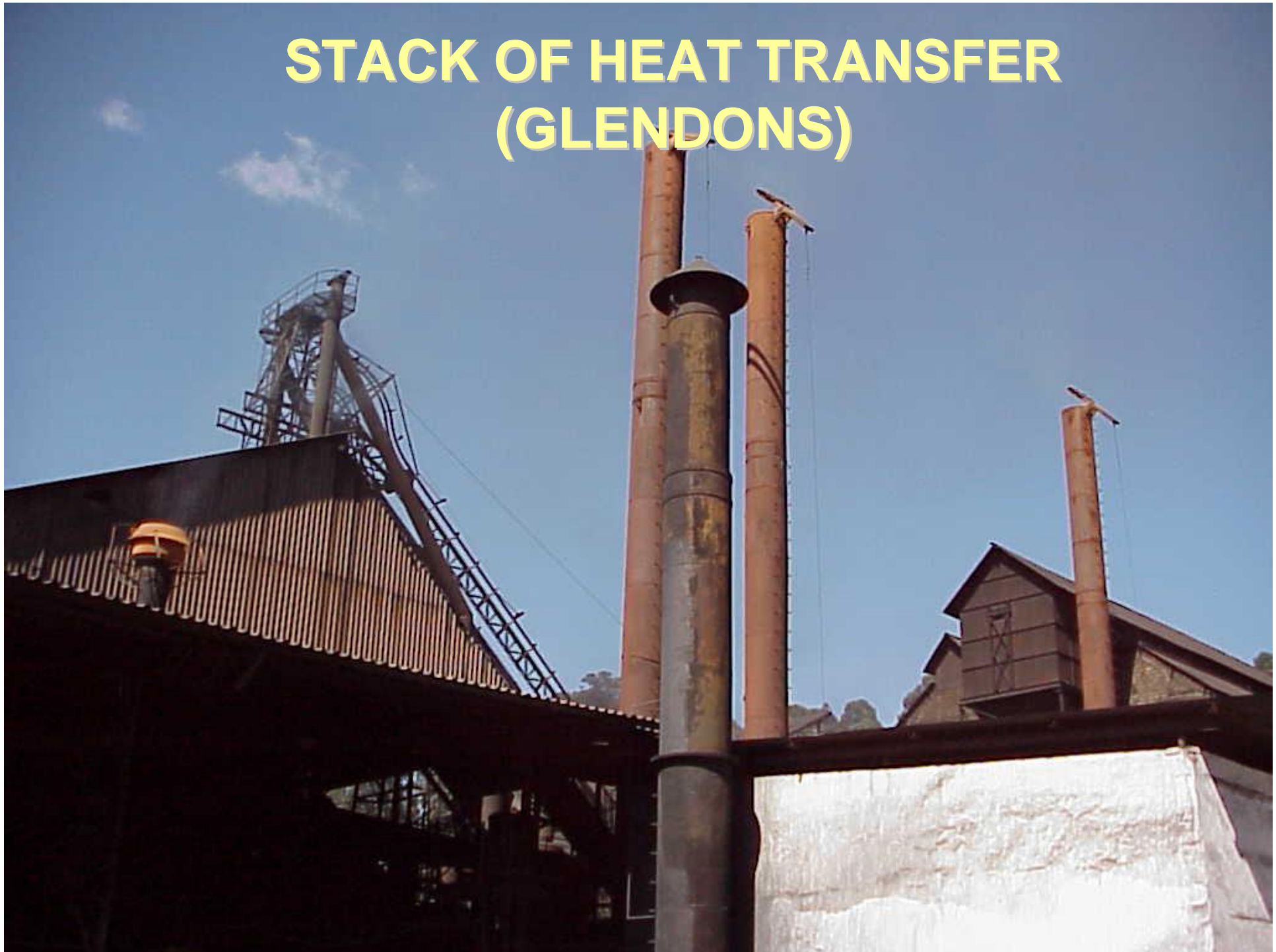
# CHARCOAL DISCHARGING



# BAG FILTER FOR CHARCOAL DISCHARGE



# STACK OF HEAT TRANSFER (GLENDONS)





**THE END**