



CASE STUDY **HYUNDAI – ATLAS** **MAXI 100** **INCINERATOR** **REFURBISHMENT**

All refractories and insulation replaced internally

After a long service life, the internal condition was found quite miserable and in need of extensive repairs to assure trouble free operation and avoid possible damage to the steel casing and cooling cap around the incinerator furnace. A full replacement was proposed and accepted by owners.



**All materials
readily available
from stock**

**First class work
by experienced
masons**

Reasonable cost

**Work can be done
while ship is in
service**

**Few days only
from commencing
until finish work**

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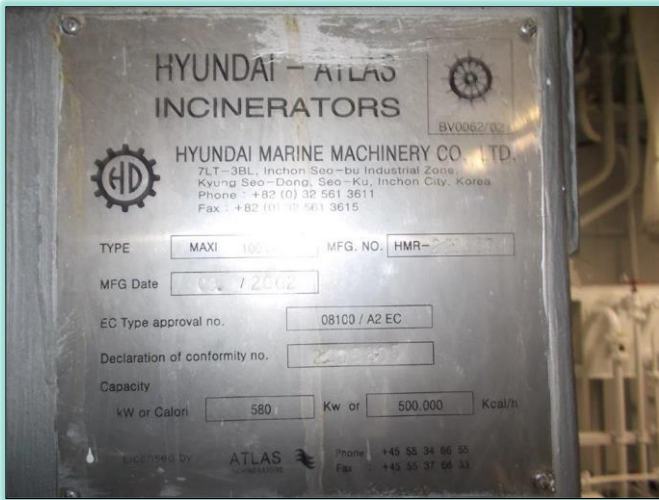
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Case study

Hyundai – ATLAS Maxi 100 – Incinerator refurbishment



Incinerator name plate



Internal condition found quite miserable



Dividing wall to second chamber found close to collapsing (note burners in roof)



Front wall casing disposed to the heat with risk of damage



Doors found in very poor conditon



Door after refurbishment

Case study

Hyundai – ATLAS Maxi 100 – Incinerator refurbishment



Door after refurbishment



Removing all refractory and lining



Insulating layer rammed up.
Note the inner layer of ceramic wool



Fireproof castable reinforced with stainless steel fibers (heat resistant)



Lower shuttering in place and supported



Casting of lower part
Note the slots to support wall bricks

Case study

Hyundai – ATLAS Maxi 100 – Incinerator refurbishment



All walls casted and roof rammed in plastic (mouldable) refractory



Guide tubes for burners in roof.



Dividing wall in first chamber.
Note the heavy support beam being casted



Wall securely anchored inside wall.
Note the ceramic fiber insulation to casing



Refurbishment completed.
First chamber with view into second chamber



View into second chamber through third chamber. Note the heavy beam casted in place