

**THE SITUATION:**

BOTH METAL AND BATH CRUCIBLES ARE REGULARLY RELINED WITH A REFRACTORY LINING PRIOR TO RETURNING TO SERVICE. IT IS IMPORTANT THAT THESE LININGS ARE SAFELY DRIED AND PREHEATED.

**THE PROBLEM:**

TRADITIONAL METHODS HAVE USED GAS, OIL OR OXY-FUEL TO CURE LININGS; BUT THESE ENERGY SOURCES GENERATE POLLUTING GASES AND ARE NOT AS EFFICIENT AS ELECTRICITY FOR HEAT TRANSFER.

**THE SOLUTION:**

AN ELECTRICAL DRYING SYSTEM HAS BEEN DESIGNED AND COMMERCIALISED BY STAS. IT PRODUCES NO POLLUTANTS AND IS VIRTUALLY NOISE FREE. THIS MEANS THERE IS A CONSIDERABLE REDUCTION IN ENERGY COSTS OF UP TO 80%, WITH A TOTAL CONTROL OVER THE ENTIRE HEATING CYCLE, THUS ENSURING A BETTER LINING QUALITY WITHOUT THERMAL SHOCK.

**THE ADVANTAGES:**

- 1- LOW OPERATING, MAINTENANCE AND CAPITAL COSTS.
- 2- AUTOMATIC OPERATION (PLC): NO DEDICATED OPERATOR.
- 3- NO POLLUTANTS; NOISE FREE.
- 4- REDUCED ENERGY COSTS.
- 5- BETTER TEMPERATURE CONTROL, THUS AVOIDING THERMAL SHOCK.

