

KAWASAKI STEEL TECHNICAL REPORT

No.13 (September 1985)

High Efficiency Blast Furnace Gas Firing Power Plant

High Efficiency Blast Furnace Gas Firing Power Plant*



Synopsis:

Conservation of energy is one of the most important problems which we are confronted with. We have so far accomplished remarkable records in devising measures for a power generating plant to save energy. A huge power generating plant geared to produce 125 000 kW of electric-

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

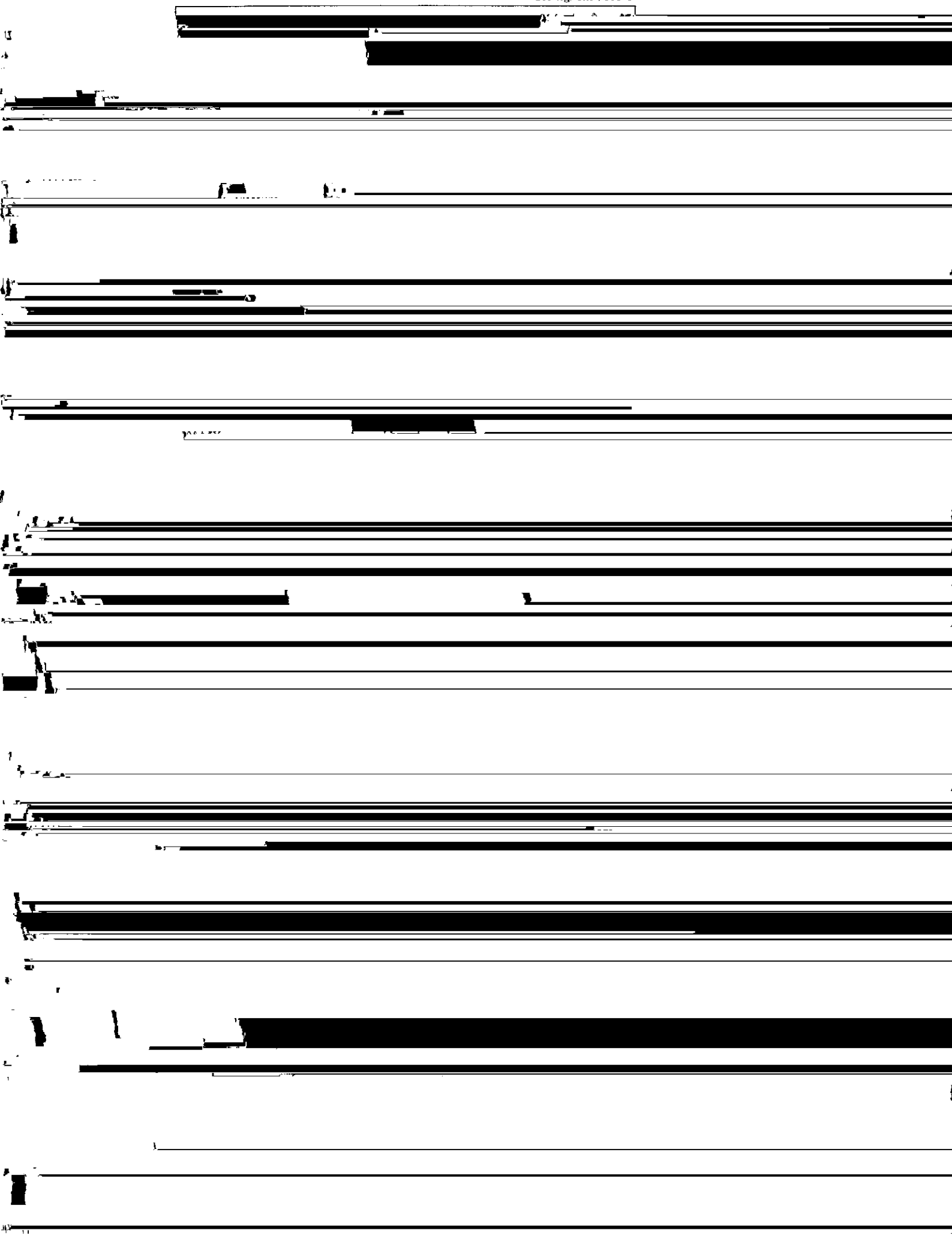
[REDACTED]

[REDACTED]

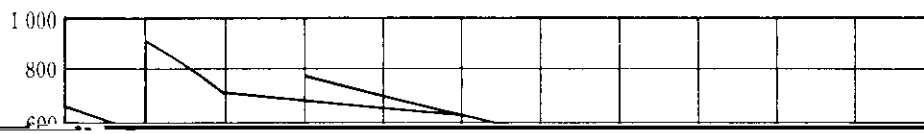
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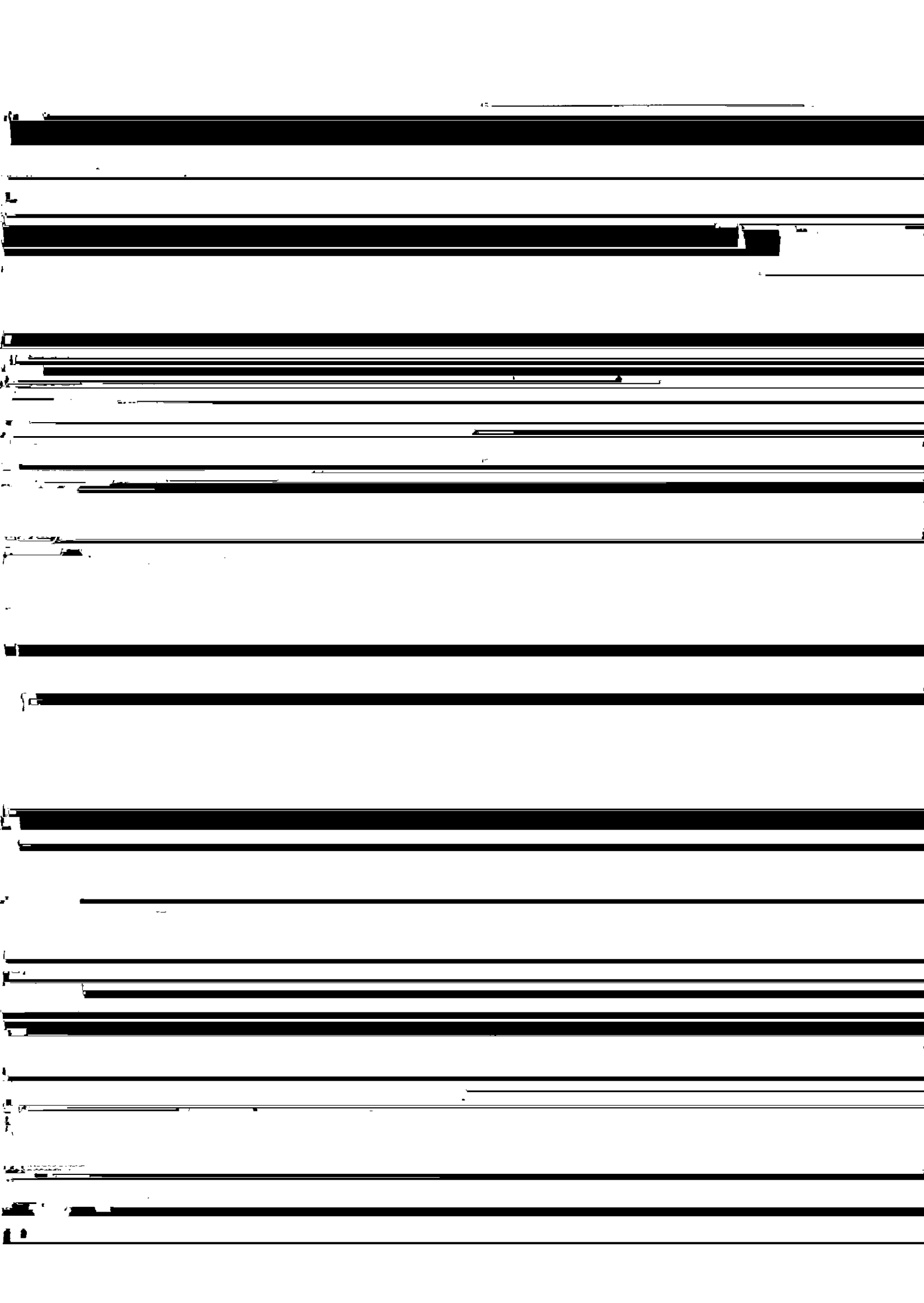
[REDACTED]

169 kg/cm², 538°C



Case	Steady-state results	
	Temperature (K)	Pressure (atm)
1	1000	1.0
2	1000	1.0
3	1000	1.0
4	1000	1.0
5	1000	1.0
6	1000	1.0
7	1000	1.0
8	1000	1.0
9	1000	1.0
10	1000	1.0
11	1000	1.0
12	1000	1.0
13	1000	1.0
14	1000	1.0
15	1000	1.0
16	1000	1.0
17	1000	1.0
18	1000	1.0
19	1000	1.0
20	1000	1.0
21	1000	1.0
22	1000	1.0
23	1000	1.0
24	1000	1.0
25	1000	1.0
26	1000	1.0
27	1000	1.0
28	1000	1.0
29	1000	1.0
30	1000	1.0
31	1000	1.0
32	1000	1.0
33	1000	1.0
34	1000	1.0
35	1000	1.0
36	1000	1.0
37	1000	1.0
38	1000	1.0
39	1000	1.0
40	1000	1.0
41	1000	1.0
42	1000	1.0
43	1000	1.0
44	1000	1.0
45	1000	1.0
46	1000	1.0
47	1000	1.0
48	1000	1.0
49	1000	1.0
50	1000	1.0
51	1000	1.0
52	1000	1.0
53	1000	1.0
54	1000	1.0
55	1000	1.0
56	1000	1.0
57	1000	1.0
58	1000	1.0
59	1000	1.0
60	1000	1.0
61	1000	1.0
62	1000	1.0
63	1000	1.0
64	1000	1.0
65	1000	1.0
66	1000	1.0
67	1000	1.0
68	1000	1.0
69	1000	1.0
70	1000	1.0
71	1000	1.0
72	1000	1.0
73	1000	1.0
74	1000	1.0
75	1000	1.0
76	1000	1.0
77	1000	1.0
78	1000	1.0
79	1000	1.0
80	1000	1.0
81	1000	1.0
82	1000	1.0
83	1000	1.0
84	1000	1.0
85	1000	1.0
86	1000	1.0
87	1000	1.0
88	1000	1.0
89	1000	1.0
90	1000	1.0
91	1000	1.0
92	1000	1.0
93	1000	1.0
94	1000	1.0
95	1000	1.0
96	1000	1.0
97	1000	1.0
98	1000	1.0
99	1000	1.0
100	1000	1.0





Major Kawasaki Steel products used for the No. 3 power
plant are listed in Table 2 and include the following:

higher efficiency, and demonstrates a plant efficiency of
about 43%, much higher than that of large commercial

ing recently developed items:

power plants

(1) Boiler tubes made from STBA 22 ERW pipes,
manufactured by Chita Works and given special

Through the construction of the No. 3 power plant,
the electric self-sufficiency ratio of Chiba Works has