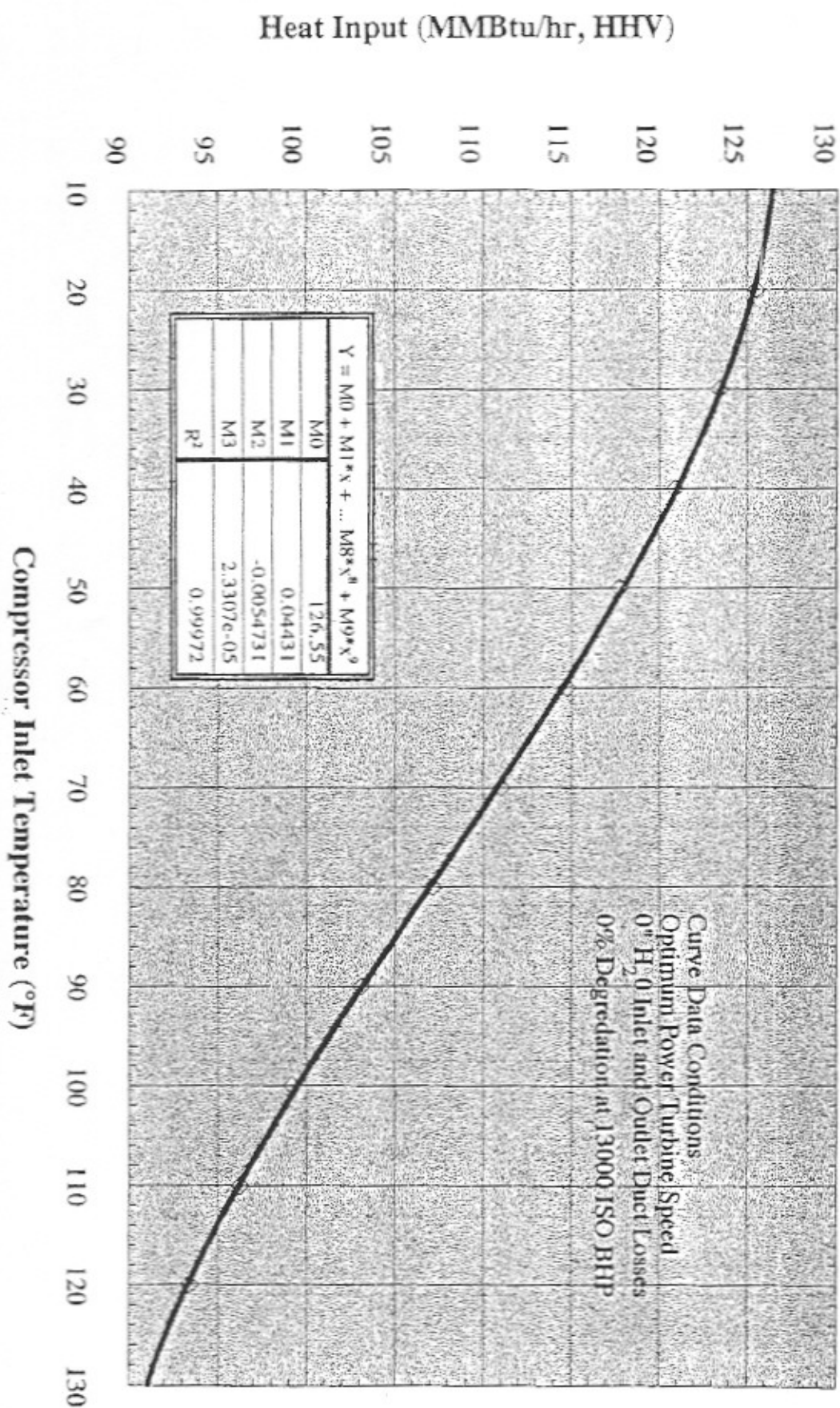
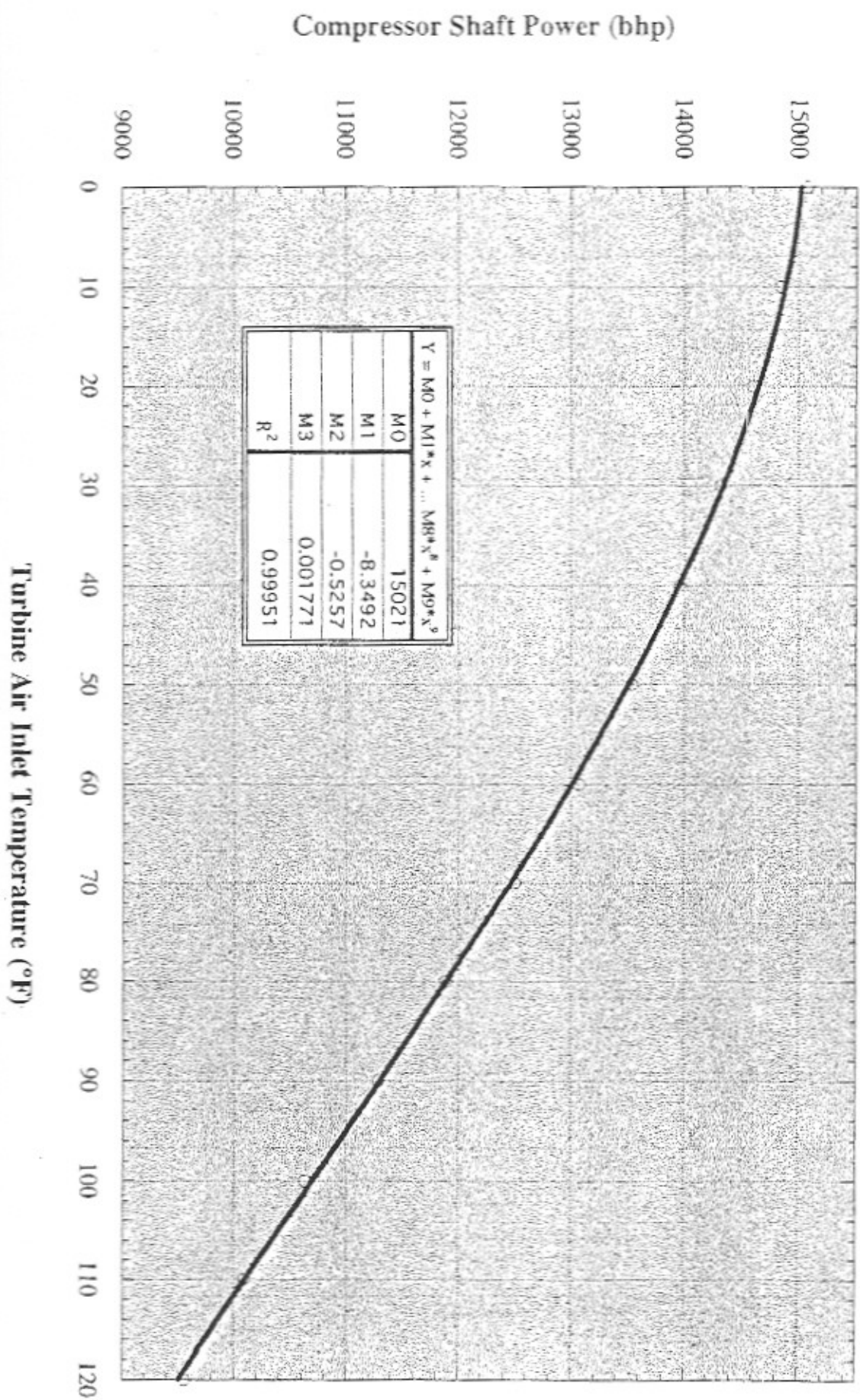


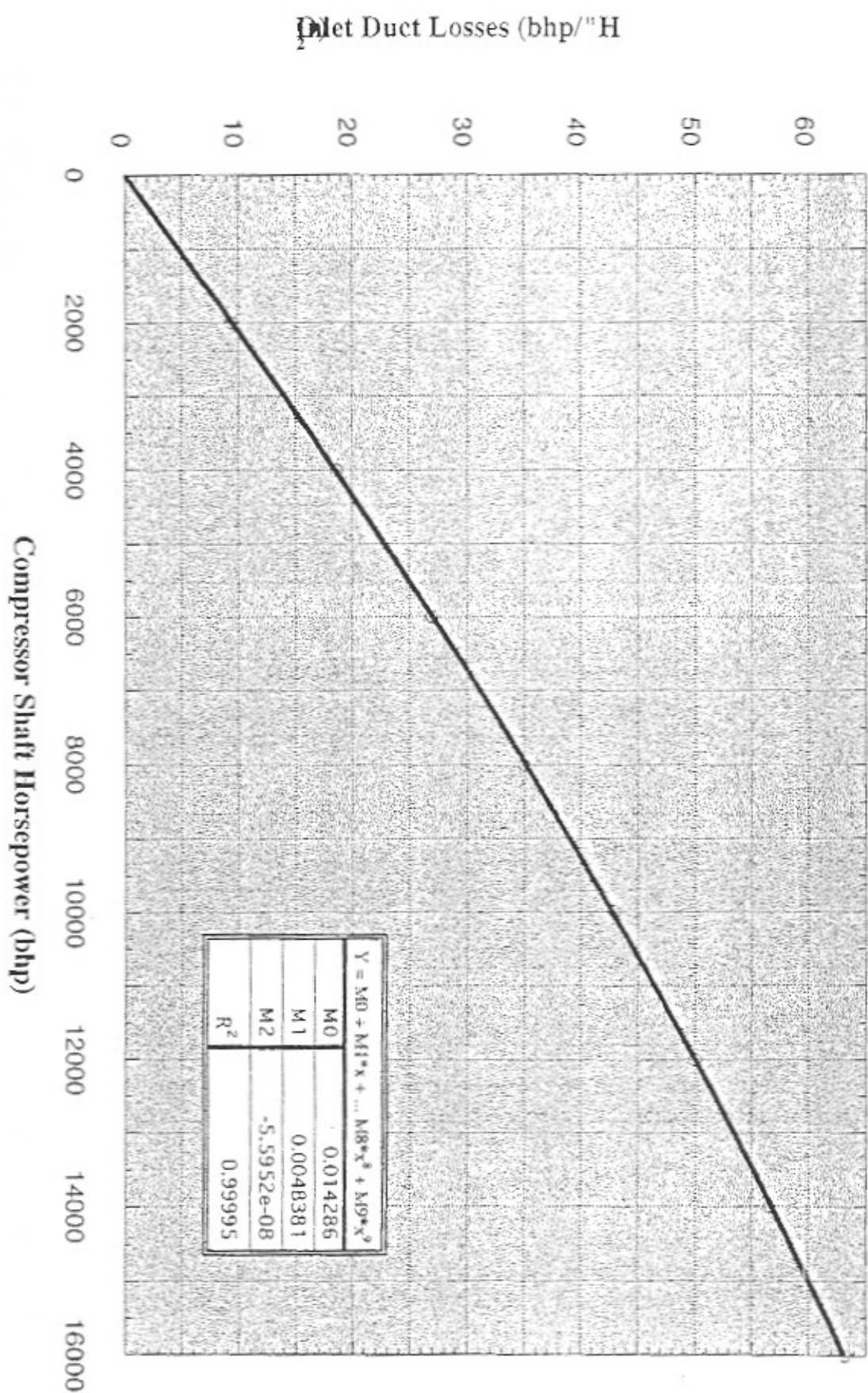
Solar Mars 90 T-13002S Combustion Turbine Unit 1407 - Fuel Consumption Curve Heat Input vs Inlet Temperature



**Solar Mars 90 T-13002S Combustion Turbine
Unit 1407 - Output Power Curve No. 1
Turbine Air Inlet Temperature vs Output Power**



**Solar Mars 90 T-13002S Combustion Turbine
Unit 1407 - Output Power Curve No. 2
Inlet Duct Losses vs Output Power**

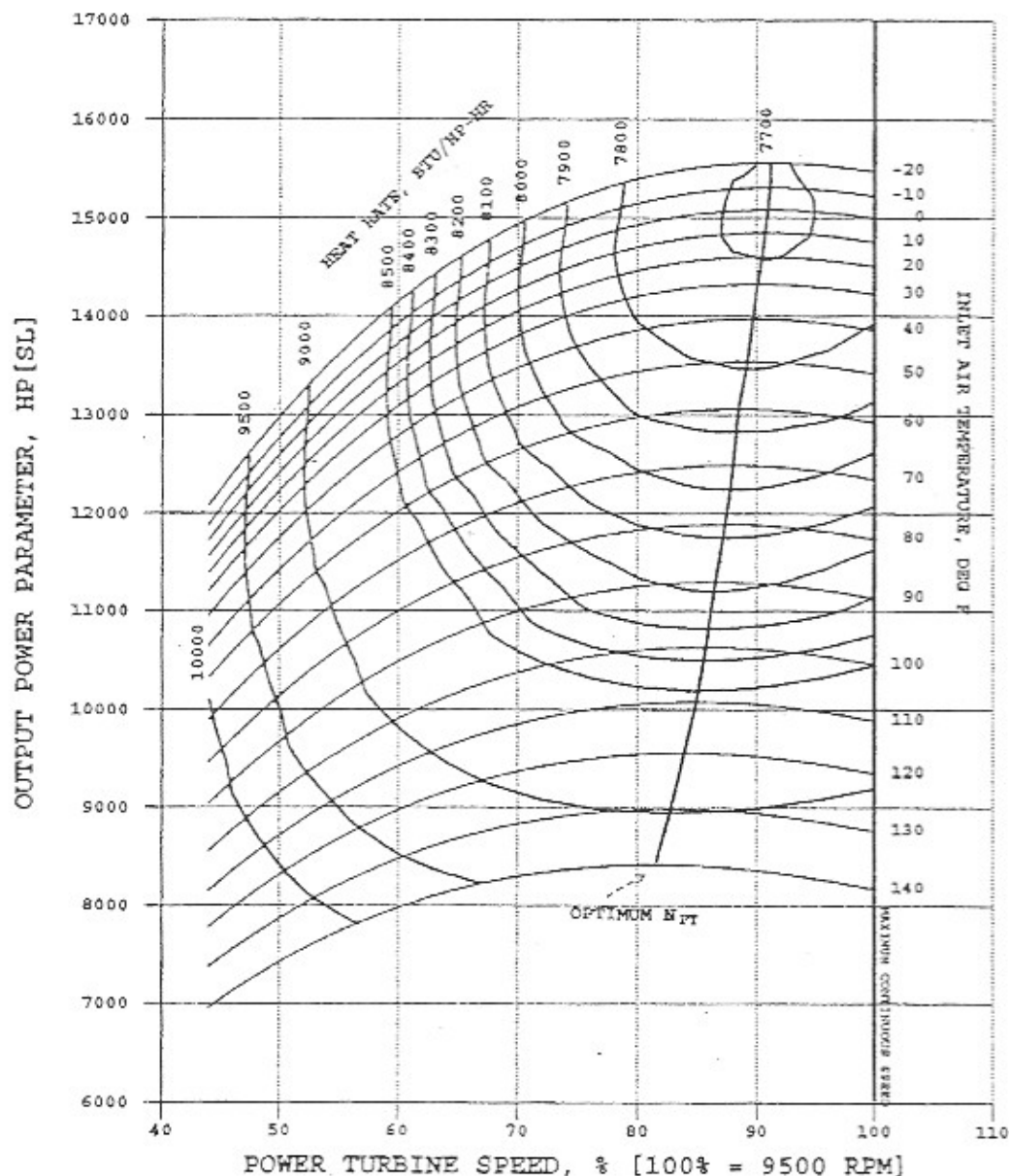


This curve was used to generate
Heat Input vs Air Inlet Curve and Power Output
Curve No. 1.

MARS 90-T13002S TME-2S REV. 2.1
CS/MD GAS TURBINE
122F MATCH
REF: SD-27393[S] SHT. 2
[DATE: 4-MAY-2001]

.NOMINAL PERFORMANCE
.ELEVATION SEA LEVEL
.RELATIVE HUMIDITY 60 PERCENT
.ZERO INLET DUCT PRESSURE LOSS
.ZERO EXHAUST DUCT PRESSURE LOSS
.NO GAS PRODUCER POWER EXTRACTION
.NO WATER INJECTION
.NO OUTPUT GEARBOX
.[LHV: 20610 BTU/LB]

NATURAL GAS FUEL



Unit 1407 Emissions Data
Table of Allowable Emissions below 59°F
FDEP EU ID No. 0390029-008

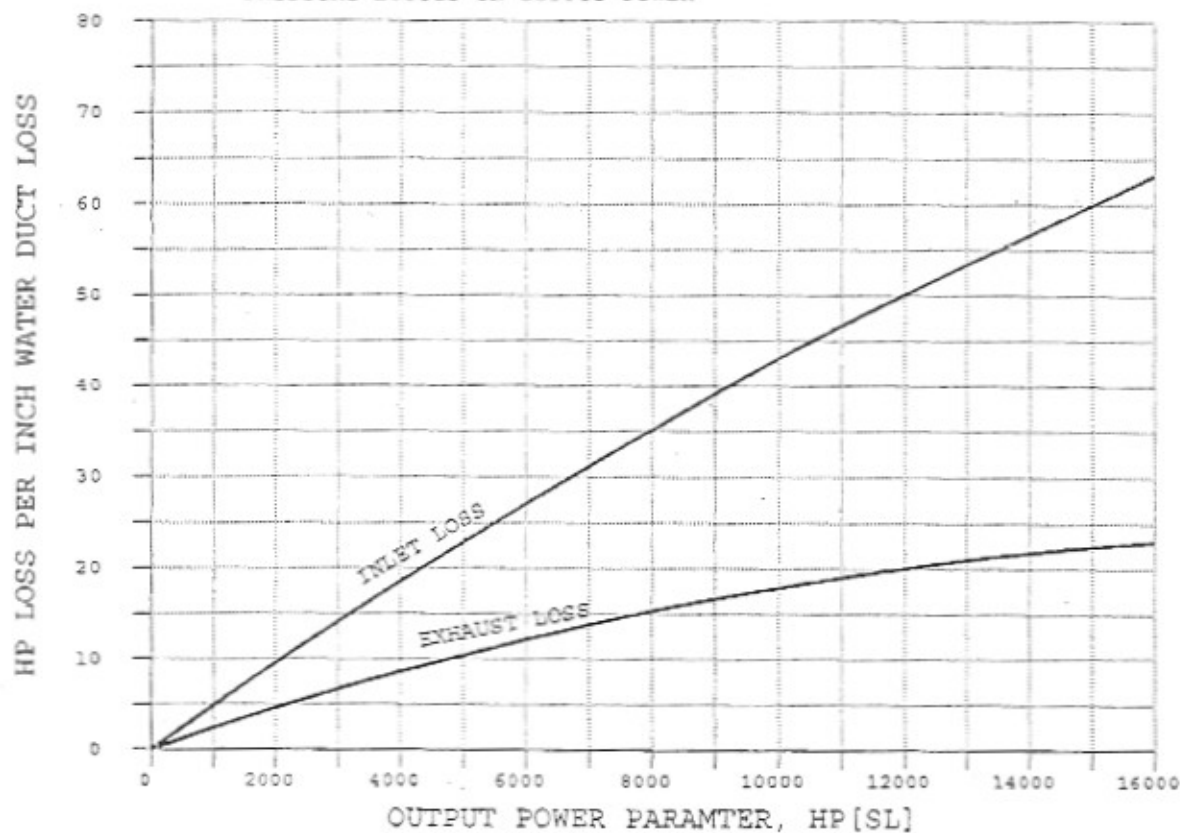
Inlet Air Temp (°F)	NO _x Emission Limit (lbs/hr)	CO Emission Limit (lbs/hr)	SO ₂ Emission Limit (lbs/hr)
0	11.24	13.66	3.41
2	11.24	13.67	3.42
4	11.24	13.67	3.42
6	11.24	13.67	3.42
8	11.24	13.66	3.41
10	11.23	13.65	3.41
12	11.22	13.64	3.41
14	11.20	13.62	3.40
16	11.18	13.59	3.40
18	11.16	13.57	3.39
20	11.14	13.54	3.38
22	11.11	13.50	3.38
24	11.08	13.47	3.37
26	11.04	13.43	3.36
28	11.01	13.38	3.35
30	10.97	13.34	3.33
32	10.93	13.29	3.32
34	10.89	13.24	3.31
36	10.84	13.18	3.30
38	10.80	13.12	3.28
40	10.75	13.06	3.27
42	10.70	13.00	3.25
44	10.64	12.94	3.23
46	10.59	12.87	3.22
48	10.53	12.80	3.20
50	10.47	12.73	3.18
52	10.42	12.66	3.17
54	10.36	12.59	3.15
56	10.29	12.51	3.13
58	10.23	12.44	3.11
59	10.20	12.40	3.10
59 +	10.20	12.40	3.10

Note: These equivalent mass emission rates reflect the current permit requirement based upon the original vendor data of expected fuel and exhaust flow rates. They do not correspond precisely to the potential mass emission rates based upon actual fuel and exhaust flow conditions and the permitted concentrations of 25 ppmv NO_x @ 15% O₂, 50 ppmv CO @ 15% O₂, and 10 gr S/100 SCF in the fuel gas.

This curve was used to generate
Power Output Curve No. 2 for
Inlet Losses

MARS 90 GAS TURBINE ENGINE
CS/MD APPLICATIONS 122P MATCH

EFFECT OF INLET AND EXHAUST SYSTEM
PRESSURE LOSSES ON OUTPUT POWER



MR177