

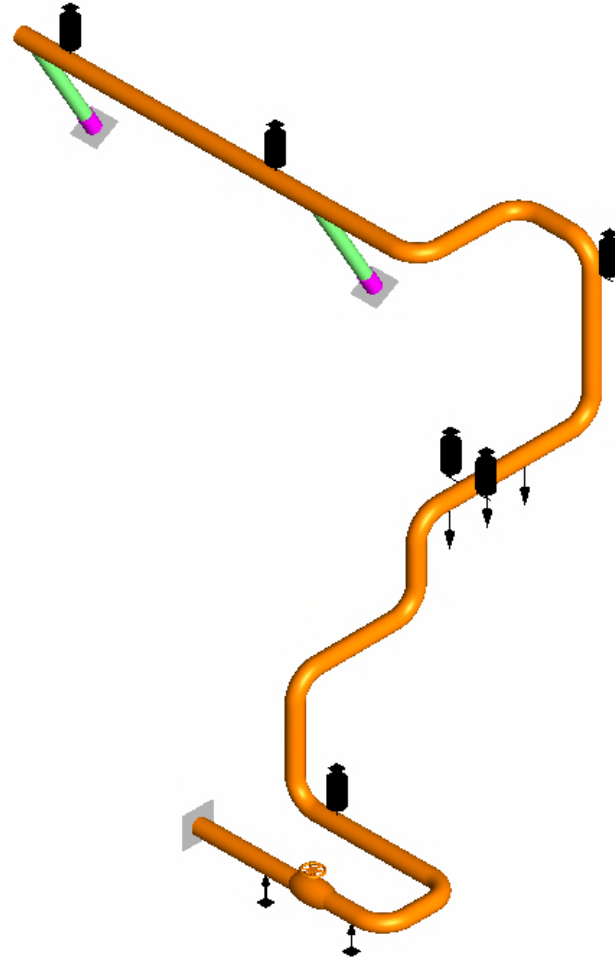
ボイラ主配管熱応力解析

モデル図

Pipe Properties

Pipe Identifier

MS-10B
MS-14B
STUB



Static Earthquake

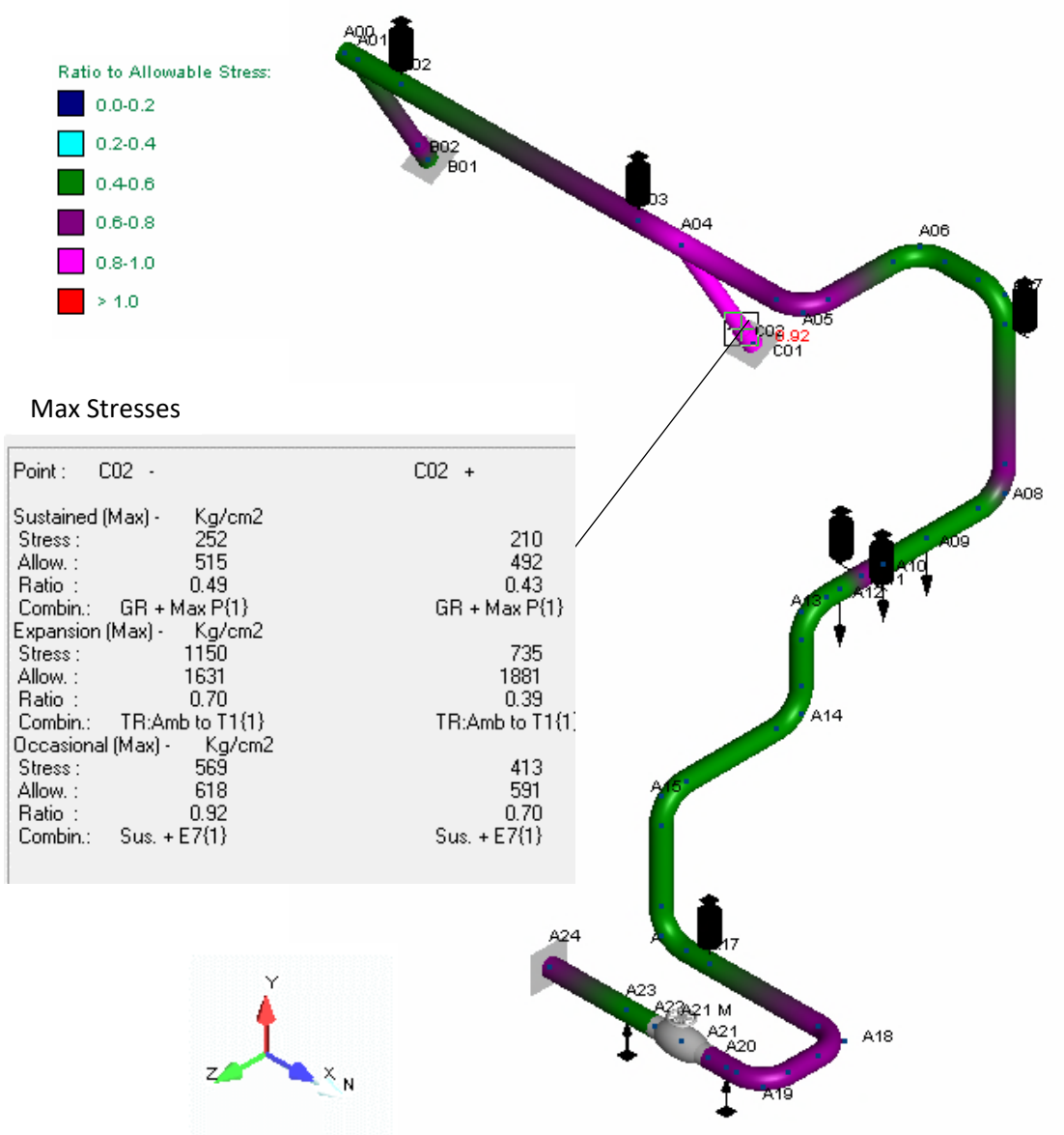
Case	Seismic Code	Vertical Factor	X (ε)	Y (ε)	Z (ε)
E1	User		0.3330	0.2920	0.0000
E2	User		0.3330	-0.2920	0.0000
E3	User		-0.3330	0.2920	0.0000
E4	User		-0.3330	-0.2920	0.0000
E5	User		0.0000	0.2920	0.3330
E6	User		0.0000	-0.2920	0.3330
E7	User		0.0000	0.2920	-0.3330
E8	User		0.0000	-0.2920	-0.3330

PipeID	Actual O.D. mm	Wall Thick. mm	Mill Tol. mm	Insul. Thick. mm	Insul. Dens. Kg/m3	Pipe Material	Pres. Kg/cm2	Temp. deg C	Cold Allow. Kg/cm2	Hot Allow. Kg/cm2
MS-14B	355.6	55	6.875	175	165	A335-P22	145	546	1202.25	514.59
MS-10B	273.0	43	5.375	125	165	A335-P22	145	546	1202.25	514.59
STUB	309.0	57	7.125	125	165	A182-F22	145	546	1504.57	492.20

MAIN STEAM PIPNG

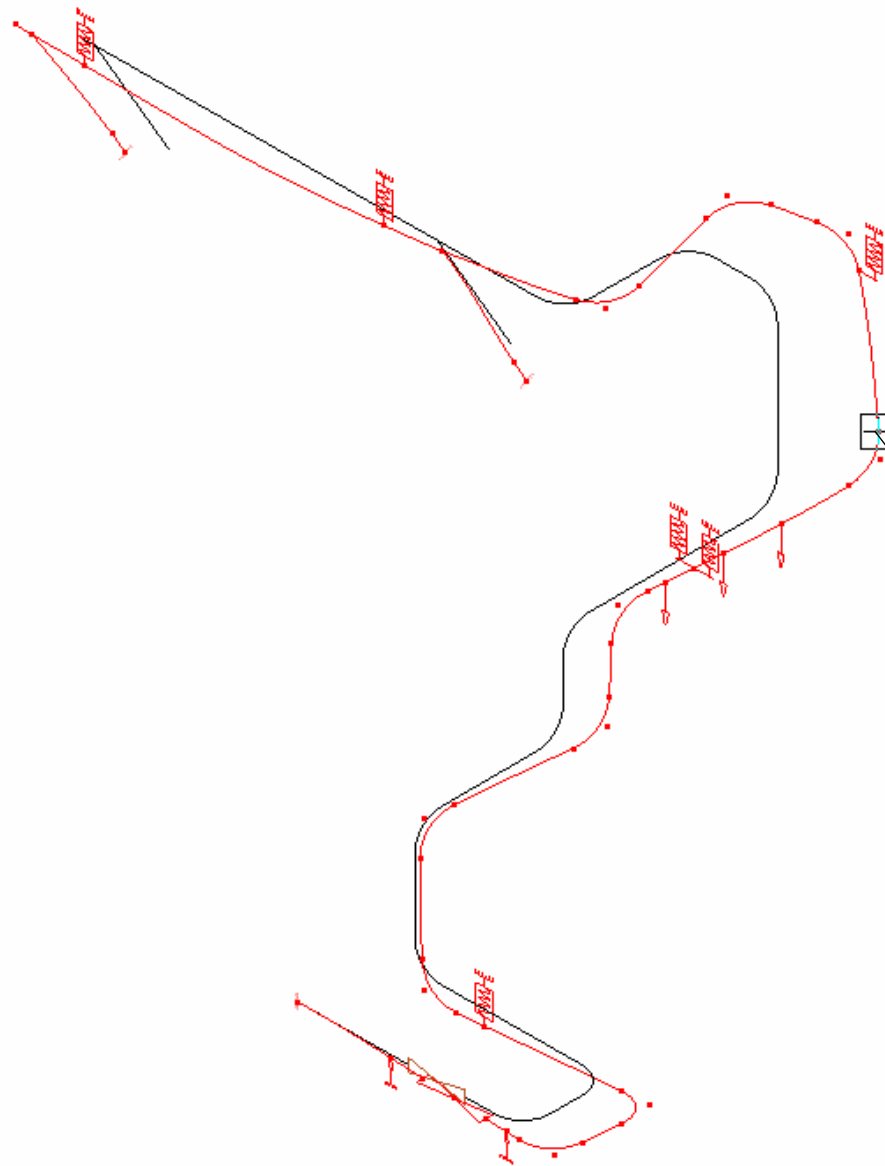
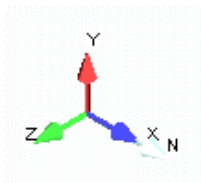
MODEL DIAGRAM

解析結果



MAIN STEAM PIPNG

STRESS DIAGRAM

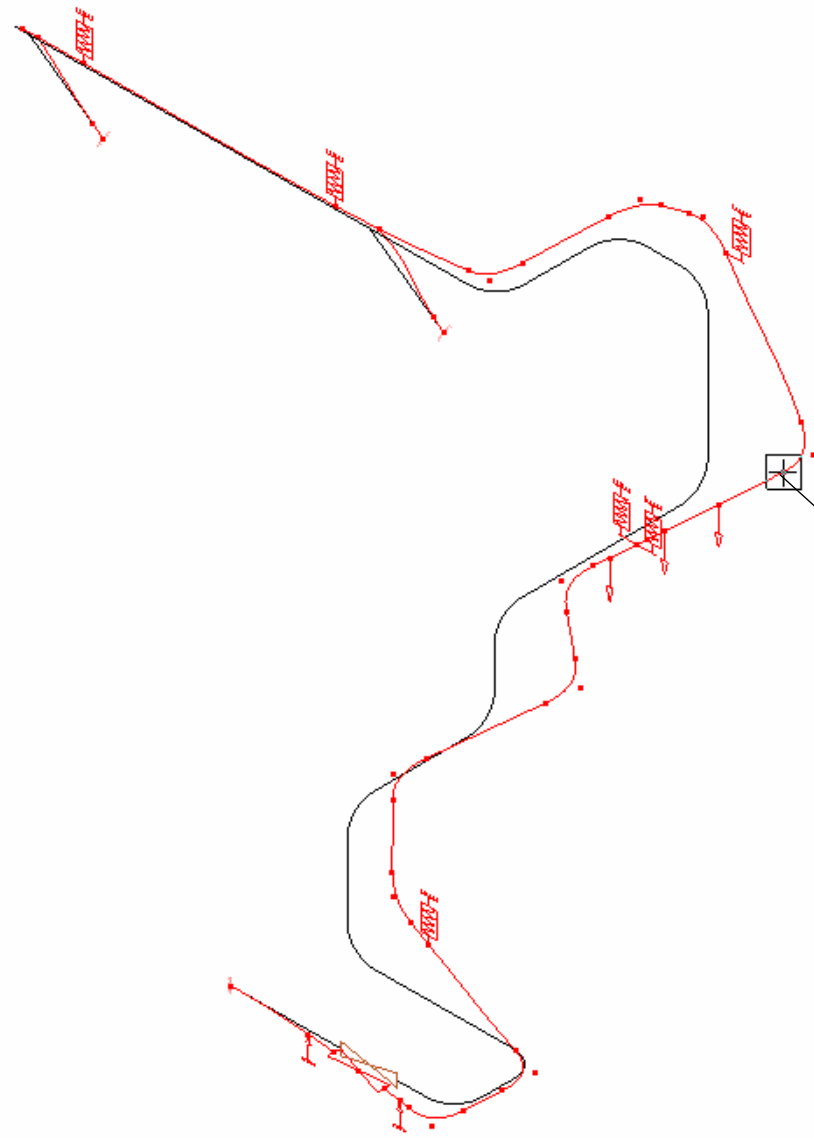
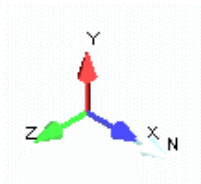


Max Displacements

Point :	A08 N
Load :	GT1P1(1)
Displacements - mm	
Dx :	36.541
Dy :	23.337
Dz :	-51.571
Total :	67.375

MAIN STEAM PIPNG

DISPLACEMENT DIAGRAM (OPERATION)



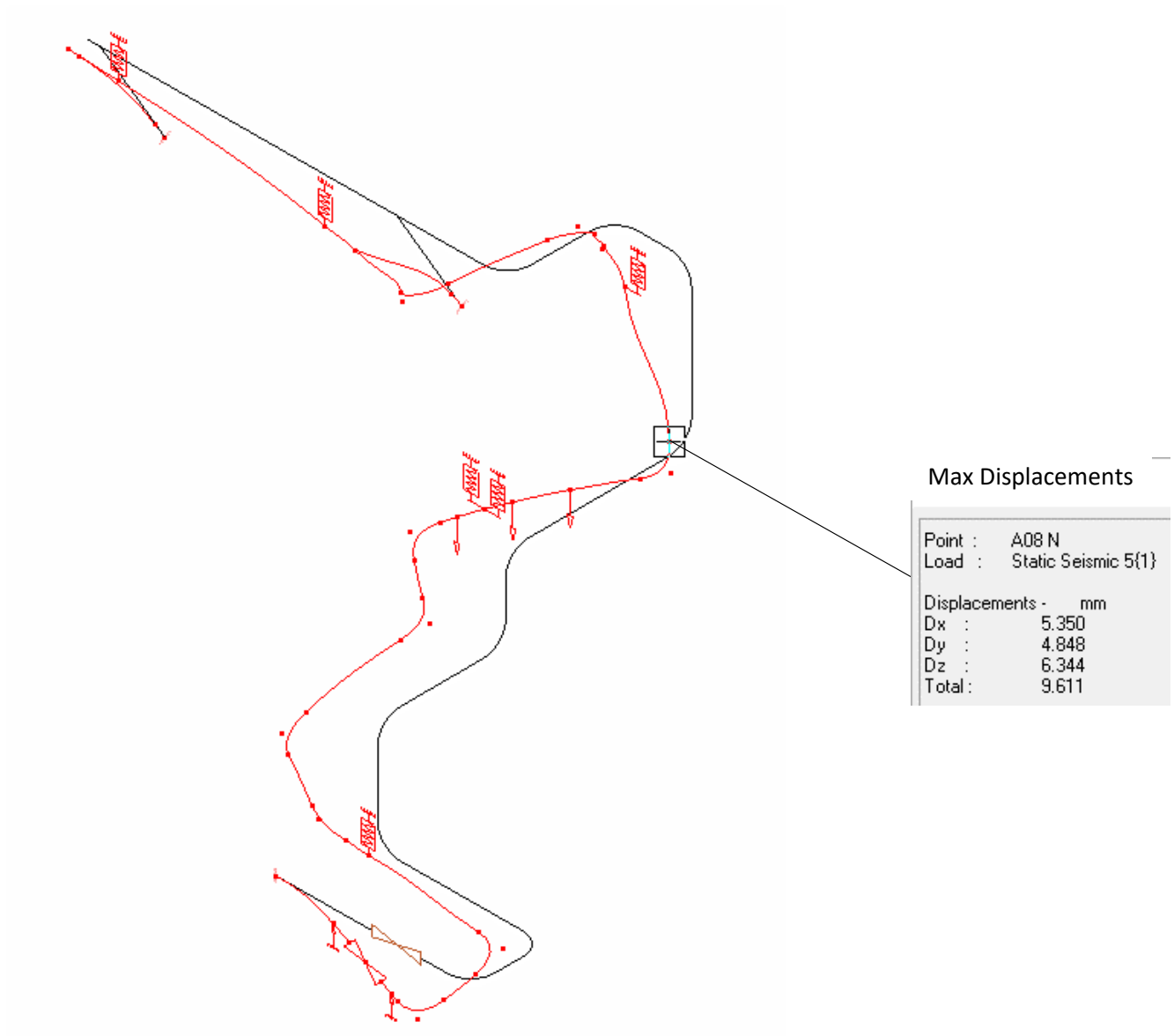
Max Displacements

Point : A08 F
Load : Static Seismic 1{1}

Displacements - mm
Dx : 8.912
Dy : 7.094
Dz : 0.620
Total : 11.407

MAIN STEAM PIPNG

DISPLACEMENT DIAGRAM (SEISMIC +X)



MAIN STEAM PIPNG

DISPLACEMENT DIAGRAM (SEISMIC +Z)