CLAIMS

1. A seal material handling monitoring device, sealing being performed by sandwiching a seal material in a flange joint and tightening the seal material by means of a plurality of bolts, the seal material handling monitoring device comprising a processor which receives a sensor output from a plurality of sensors that detect an axial force of each bolt; generates distribution information of a target axial force by means of the target axial force and position information for the axial force; generates distribution information of the axial force by means of the axial force and position information; presents a first distribution map representing the target axial force and presents a second distribution map representing the axial force, via coordinates; determines a tightening procedure for each bolt; and presents the determination results to a monitor.

2. The seal material handling monitoring device according to claim 1, further comprising:

the plurality of sensors that detect the axial force of each bolt; and

the monitor that displays the determination results.

3. A seal material handling monitoring program for causing a computer to implement functions to:

receive a sensor output from a plurality of sensors that detect an axial force of each bolt;

generate distribution information of a target axial force by means of the target axial force and position information for the axial force, and generate distribution information of the axial force by means of the axial force and position information;

present a first distribution map representing the target axial force and present a second distribution map representing the axial force, via coordinates; and

determine a tightening procedure for each bolt, and

present the determination results to a monitor.

4. A seal material handling monitoring method, sealing being performed by sandwiching a seal material in a flange joint and tightening the seal material by means of a plurality of bolts, the seal material handling monitoring method comprising:

a step of receiving a sensor output from a plurality of sensors that detect an axial force of each bolt;

a step of generating distribution information of a target axial force by means of the target axial force and position information for the axial force, and generating distribution information of the axial force by means of the axial force and position information;

a step of presenting a first distribution map representing the target axial force and presenting a second distribution map representing the axial force, via coordinates; and

a step of determining a tightening procedure for each bolt, and presenting the determination results to a monitor.

5. The seal material handling monitoring method according to claim 4, further comprising:

a step of detecting the axial force of each bolt; and

a step of displaying the determination results on the monitor.

6. A seal material handling monitoring system, sealing being performed by sandwiching a seal material in a flange joint and tightening the seal material by means of a plurality of bolts, the seal material handling monitoring system comprising a processor which receives a sensor output from a plurality of sensors that detect an axial force of each bolt; generates distribution information of a target axial force by means of the target axial force and position information for the axial force; generates distribution information of the axial force by means of the axial force and position information; presents a first distribution map representing the target axial force

and presents a second distribution map representing the axial force, via coordinates; determines a tightening procedure for each bolt; and presents the determination results to a monitor.

7. The seal material handling monitoring system according to claim 6, further comprising:

a seal handling unit including the plurality of sensors that detect the axial force of each bolt; and

the monitor that displays the determination results.