

CLAIMS

1. A safety information generation apparatus using a daily job-site work report in a risk evaluation using a daily job-site work report to prevent disaster on an industrial site, the apparatus comprising: a safety information server (20) that generates and provides safety information using the daily job-site work report; and a terminal (10) that is responsible for inputting and inquiring the daily job-site work report or safety information,

wherein the safety information server (20) comprises:

a safety standard database (22) that sets and stores a safety standard for an activity;

a daily job-site work report database (23) that stores contents of the daily job-site work report;

a control unit (21) that determines a risk of the activity by reading the daily job-site work report and comparing the daily job-site work report with the safety standard,

an activity report database (24) that generates and

stores the contents of the activity in a time series using the daily job-site work report; and a safety information database (25) that stores a risk of the activity evaluated by the control unit (21) through comparing the daily job-site work report with the safety standard,

wherein the safety standard includes at least one of an installation status of safety facilities that the activity must have, environmental statuses of gas, temperature, humidity, and water, an activity order, a procedural status, conditions (start, completion, schedule difference, and progress rate) that the precedent activity must have, and conditions (start, schedule difference, and progress rate) that the subsequent activity must have,

wherein the safety standard sets a relationship with a parallel activity, a preceding activity, and a subsequent activity for a specific task;

wherein the relationship includes a standard related to at least one of start, completion, schedule difference, and

progress rate difference,

wherein the daily job-site work report includes schedule information on an activity name, an activity position, an activity start time, or an activity completion time,

wherein the control unit reads the daily job-site work report of the partner company and compares the relevant activity with conditions of the activity itself set in the safety standard, compares the relevant activity with the preceding activity condition, compares the relevant activity with the subsequent activity condition, compares the relevant activity with the activity type that should not be performed at the same time in the activity space, or compares the relevant activity with at least one of the conditions of other activities in the upper, lower, left, and right spaces to be determined as a risk, or

wherein the control unit evaluates the risk by comparing at least one of the start, the completion, the schedule difference, and the progress rate difference between a

parallel activity, a preceding activity, and a subsequent activity for a specific activity.

2. The safety information generation apparatus using a daily job-site work report of claim 1, wherein the daily job-site work report is prepared by using a spreadsheet (Excel), a word processor (word process and Word), text inputter, mobile (smartphone), and PMIS.

3. A safety information generation method using a daily job-site work report in a risk evaluation method using a daily job-site work report to prevent disaster at an industrial site, the method comprising:

- a step of setting a safety standard for an activity and storing the safety standard in a safety standard database;

- a step of preparing the daily job-site work report and storing the daily job-site work report in a daily job-site work report database;

- a step of evaluating a risk by reading the daily job-site work report and determining whether the activity contents exceed the safety standard by a control unit,

- a step of generating activity contents in a time series using the daily job-site work report and storing the activity contents in the daily job-site work report database; and

- a step of evaluating the risk of the activity through comparison between the daily job-site work report and the

safety standards and storing the evaluation in the safety information database,

a step of describing at least one of an installation status of safety facilities that the activity must have, environmental statuses of gas, temperature, humidity, and water, an activity order, a procedural status, conditions (start, completion, schedule difference, and progress rate) that the precedent activity must have, and conditions (start, schedule difference, and progress rate) that the subsequent activity must have in the safety standard,

a step of describing the activity name, the activity position, and the activity contents in a form of a combination of words or a narrative

a step of determining a risk by reading a daily job-site work report of a partner company by date and performing by a control unit at least one of a comparison with the conditions of the activity itself set in the safety standards for the relevant activity, a comparison with a preceding activity condition, a comparison with a subsequent activity condition, a comparison with an activity type that should not be performed at the same time in an activity space, and a comparison with at least one of conditions of the activities performed in upper, lower, left, and right spaces.

a step of evaluating a risk by determining one of a start, a completion, a schedule difference, and a progress rate difference between a parallel activity, a preceding activity, and a subsequent activity based on a risk

evaluation target activity by a control unit.