CLAIMS

1. An elevator operation information notification system provided with a control means, the control means including:

a predicting unit that predicts an unsteady decrease in an operation efficiency of an elevator in a building from a schedule relating to behavior of users of the building, schedule data relating to operation of the elevator, and data of past usage status of the elevator;

an output condition setting unit that sets a date and time for outputting operation information related to the decrease in the operation efficiency before the date and time when the decrease in the operation efficiency occurs; and

an output unit that outputs the operation information related to the decrease in the operation efficiency to a display device in a hall or a car of the elevator at the date and time set by the output condition setting unit.

2. The elevator operation information notification system according to claim 1, wherein

(a) the data of the use state of the elevator includes data of the number of users of the elevator,

(b) the control means includes

(i) means for predicting the number of users of the

elevator based on data of an event schedule of the user of the building, and/or data of the past number of users of the elevator, and

(ii) means for determining whether or not the operation efficiency decreases in the unsteady situation of the elevator based on the predicted number of users, and

(c) the operation information related to the decrease in the operation efficiency includes at least information on the number of users of the elevator related to the decrease in the operation efficiency.

3. The elevator operation information notification system according to claim 1, wherein

(a) the control means includes

(i) means for predicting a transport capacity of the elevator based on an operation schedule of the elevator of the building, and

(ii) means for determining whether or not the operation efficiency decreases under the unsteady situation of the elevator based on a predicted operation state, and

(b) the operation information related to the decrease in the operation efficiency includes at least operation state information of the elevator related to the decrease in the

operation efficiency.

4. The elevator operation information notification system according to claim 1, wherein

a “provision date” is a previous day of an “occurrence date” at which the operation efficiency decreases, and

a “provision time” is a time zone before and after an “occurrence time” at which the operation efficiency decreases.

5. The elevator operation information notification system according to claim 1, wherein

a “provision date” is a day one week ago of an “occurrence date” at which the operation efficiency decreases, and

a “provision time” is a time zone before and after an “occurrence time” at which the operation efficiency decreases.

6. The elevator operation information notification system according to claim 1, wherein

a “provision time” includes a working hour time zone in the morning of an “occurrence date”.

7. The elevator operation information notification system according to claim 1, wherein

a “provision date” and a “provision time” are set according to a degree of the decrease in the operation efficiency.

8. The elevator operation information notification system according to claim 2, wherein

the means for predicting the number of users of the elevator predicts a change in the number of users under the unsteady situation, and

the change in the number of users under the unsteady situation is a change in the number of users caused by a participant of an event held in the building.

9. The elevator operation information notification system according to claim 3, wherein

the means for predicting the operation state of the elevator predicts the change in the operation state of the elevator under the unsteady situation, and

the change in the operation state of the elevator under the unsteady situation is at least a change in the operation state of the elevator caused by a decrease in the effective number of operated elevators due to a VIP dedicated operation and/or a maintenance and inspection

operation.

10. The elevator operation information notification system according to claim 2, wherein

the means for determining whether or not the operation efficiency decreases in the unsteady situation of the elevator determines that the operation efficiency decreases by comparing the number of users with the transport capacity of the elevator.

11. The elevator operation information notification system according to claim 3, wherein

the means for determining whether or not the operation efficiency decreases in the unsteady situation of the elevator determines that the operation efficiency decreases by comparing the number of users with the transport capacity of the elevator calculated based on at least the operation state information of the elevator related to the decrease in the operation efficiency.

12. An elevator operation information provision method of an elevator system provided with a control means, the method comprising, by the control means:

predicting an unsteady decrease in an operation efficiency of an elevator in a building from a schedule

relating to behavior of users of the building, schedule data relating to operation of the elevator, and data of past usage status of the elevator;

setting a date and time for outputting operation information related to the decrease in the operation efficiency before the date and time when the decrease in the operation efficiency occurs; and

outputting the operation information related to the decrease in the operation efficiency to a display device in a hall or a car of the elevator at the date and time set.