

**RISK ASSESSMENT DEVICE, RISK ASSESSMENT SYSTEM, RISK
ASSESSMENT METHOD, RISK ASSESSMENT PROGRAM, AND DATA
STRUCTURE**

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ABSTRACT

10 A risk assessment device (3) for performing risk assessment of a steam plant that
includes at least one device group that includes a steam-utilizing device that utilizes steam,
a piping system that is connected to the steam-utilizing device, and process devices that
are provided in the piping system, the risk assessment device includes a diagnosis result
storage unit (323) that accumulatively stores diagnosis results of a plurality of diagnoses
regarding each process device that is provided in the steam plant to be assessed, in
association with installation sites of the process devices, a risk information calculation
unit (33) that calculates risk information regarding a likelihood of malfunction of a
15 process device that is provided at a target installation site, based on diagnosis results
regarding process devices that are and have been provided at the target installation site,
and a device group risk information calculation unit (34) that calculates device group risk
information regarding a likelihood of malfunction of a target device group, based on the
risk information regarding installation sites of respective process devices that constitute
20 the target device group.

[Fig.2]