

ABSTRACT

RISK ASSESSMENT DEVICE, RISK ASSESSMENT METHOD, AND RISK ASSESSMENT PROGRAM

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A risk assessment device includes: a parameter storage unit (332) that calculates, based on data for calculation, one or more parameters for calculating a target malfunction curve and stores the calculated parameters, the parameters relating to piping system-related items, the data for calculation being stored in a storage unit (4) in which the piping system-related items and the number of years passed before malfunction are stored as the data for calculation with respect to each of a large number of process devices, and the piping system-related items relating to a piping system in which the process device is provided; a calculation condition acquisition unit (333) that acquires the piping system-related items with respect to the target process device; a parameter acquisition unit (334) that acquires a calculation parameter for obtaining the target malfunction curve based on the piping system-related items acquired with respect to the target process device and the stored parameters; and a malfunction curve calculation unit (337) that calculates the target malfunction curve based on the calculation parameter.

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[Fig. 3]