PREDICT
Damage Prediction System

■ SUMMARY

The Damage Prediction System PREDICT has been developed based on our abundant experience and know-how on damages of steels through maintenance work.

The latest Version 2 has improved capability to predict damages more accurately that occur in petrochemical and chemical plants using more than 500 parameters which was 151 parameters in the previous version.

With the help of this system, anyone will be able to predict the probable damages that is, at present, the sanctuary of an expert.

Furthermore, the damage prediction work and the training of personnel would be effective by linking the prediction function of this system with the related documents.

■ FUNCTIONS AND FEATURES

1. *More than 500 parameters for damage*

As many as 500 parameters of the expected cause of deterioration are registered already for the steels used in petroleum refining and petrochemical plants.

The system will output the probable deterioration automatically based on these parameters.

The parameters may be modified so that the user can customize the system database to meet their specific criterions and needs.
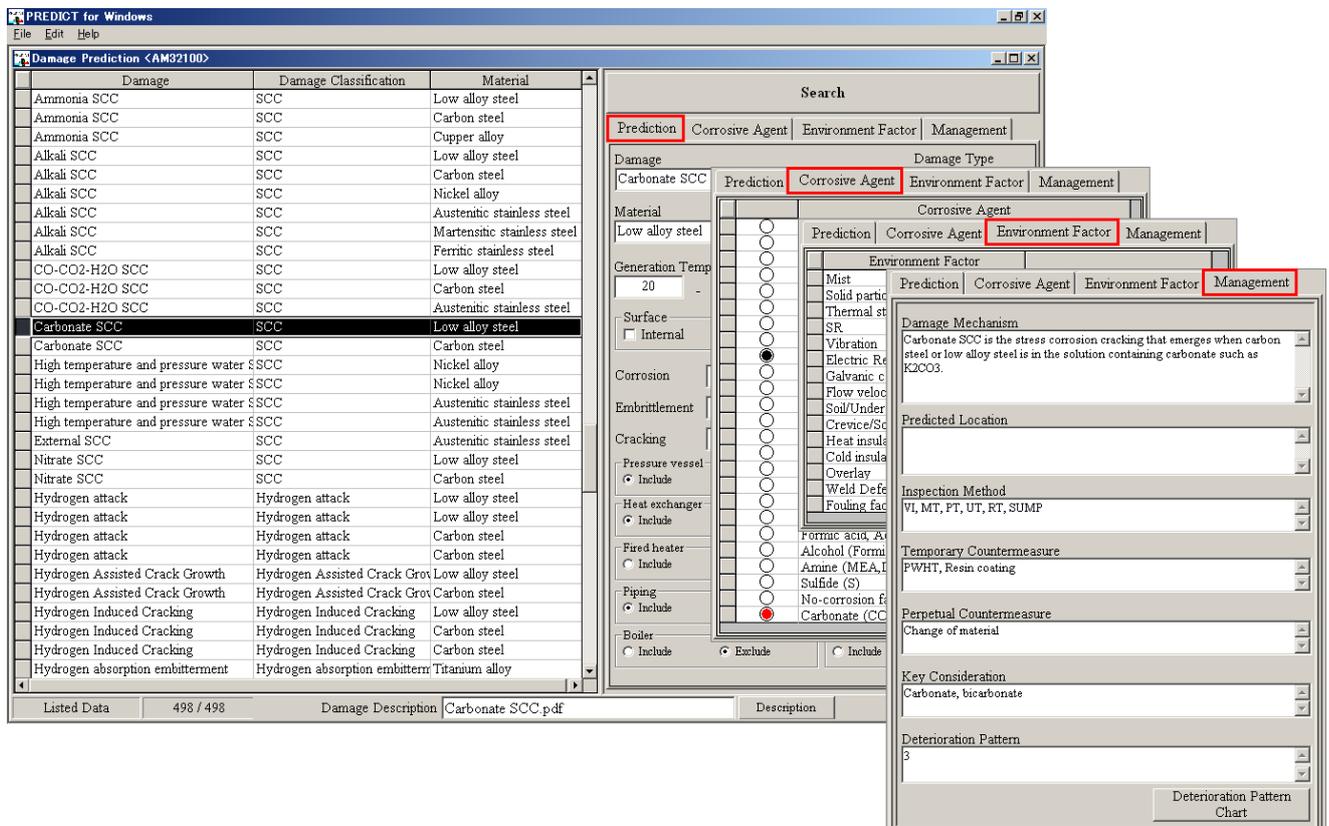
2. Damage prediction

Inputting the parameters, such as material, temperature, fluid name and etc., in the screen, will retrieve the probable damages under the designated environment.

The predicted damages will be retrieved in the rated order by the weighted parameters allocated to each damage. This new feature assures to eliminate personal-dependent omission or conflict of damage prediction.

3. Link to the relevant document

Technical document and data can be linked with the desired screen.

4. Practical feature

The probable damage for plural equipment can be predicted using the design data in Excel spreadsheet.

This function enables to minimize the time for selecting parameters of damages, currently it is a task for plant engineers that requires hours of work, and permits to eliminate personal-dependent variation of damage prediction.

■ OPERATING ENVIRONMENT

Hardware Requirements（Recommendation）

Server (With Network)	CPU : 3GHz（x86 x64）
	Memory : 4GB or more
Client	CPU : 2～3GHz（x86 x64）
	Memory : 4GB or more
	Display : 1024×768 or more
Stand-Alone	CPU : 2～3GHz（x86 x64）
	Memory : 4GB or more
	Display : 1024×768 or more

OS/DBMS Environment

Oracle Database	11.2	12.1	12.2
Network	Server	Windows 2008（x64）	Windows 2008（x64）	Windows 2012（x64）
		Windows 2012（x64）	Windows 2012（x64）	Windows 2016（x64）
	Client	Windows 7 Pro（x86 x64）	Windows 7 Pro（x86 x64）	Windows 7 Pro（x86 x64）
			Windows 8.1 Pro（x86 x64）	Windows 8.1 Pro（x86 x64）
			Windows 10 Pro（x86 x64）	Windows 10 Pro（x86 x64）
Oracle Personal Edition		11.2	12.1	12.2
Stand-Alone		Windows 7 Pro（x86 x64）	Windows 7 Pro（x64）	Windows 7 Pro（x64）
			Windows 8.1 Pro（x64）	Windows 8.1 Pro（x64）
			Windows 10 Pro（x64）	Windows 10 Pro（x64）

※Additional meetings are required in order to discuss computer-mediated environment such as network protocol.
※The system architecture and the specifications may change without prior announcement.
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