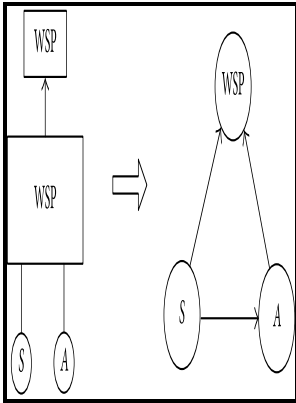


# HERAX - a microcomputer-based expert system approach for human reliability analysis.

**Aston University. Health and Safety Unit - Useful approach for evaluating expert systems, Expert Systems**



Description: -

-HERAX - a microcomputer-based expert system approach for human reliability analysis.

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Notes: Thesis (Phd) - Aston University, 1989.

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Tags: #Expert #and #knowledge

## Aston Publications Explorer

Any delays in maintenance activities could result in reduced generating capacity or an extended plant outage, both at substantial cost to the plant operator.

### The computerized plant maintenance expert system (Conference)

Over the past several years, ABSG Consulting Inc. This paper addresses some of the evaluation techniques that have been used for measuring information systems effectiveness and expert systems effectiveness. A new company, Springfields Fuels Limited, was created to run the site, which was managed and operated by Westinghouse Electric UK Ltd on the NDA's behalf.

## Aston Publications Explorer

More importantly, technical decisions made in an effort to minimize schedule impact, but without the proper expertise, could compromise plant safety. This is known as Post Operational Clean Out.

### Useful approach for evaluating expert systems, Expert Systems

With respect to technology, once again, examples go from the simplest ones to the most sophisticated ones, depending on how many parameters must be monitored, how difficult it is to collect them, what processing data have to go through, etc.

### The computerized plant maintenance expert system (Conference)

Because the conditions to be met are generally related to functional parameters, maintenance people must become process-minded.

## **The computerized plant maintenance expert system (Conference)**

Useful approach for evaluating expert systems Useful approach for evaluating expert systems LIEBOWITZ, JAY 1986-04-01 00:00:00 Abstract: Evaluation of expert systems is an important step in the knowledge engineering process. Decommissioning of the now redundant Magnox manufacturing facilities is ongoing at Springfields without compromising the other site operations. In packed workspaces, an automatic system that monitors human behaviors in real-time and provides insights about current and pending schedule deviations from the plan is critical for ensuring: 1 effective collaboration among workers and worker teams from different trades; 2 less waste of time and resources due to the lack of situational awareness; and 3 proactive outage project control.

## **Expert and knowledge**

Some 120 plant buildings and support facilities have been successfully decommissioned and demolished in the period 1996 to date. Impell Corporation's PbSHIELDING system, which is currently in use at nuclear power plants throughout the country, including three Commonwealth Edison plants, has been developed for the on-site evaluation of temporary lead shielding placement on piping systems. Conceptually, RIPBAM is a comprehensive risk-informed cash flow model for decision support.

## **Useful approach for evaluating expert systems, Expert Systems**

ABS Consulting and the South Texas Project Nuclear Operating Company STPNOC have developed a decision support process and associated software for risk-informed, performance-based asset management RIPBAM of nuclear power plant facilities. There are alternatives, however, to the human expert for some aspects of plant maintenance.

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