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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Original publisher: Washington, DC : Division of Systems Analysis and Regulatory Effectiveness, Office of Nuclear Regulatory Research, U. S. Nuclear Regulatory Commission, 2002 OCLC Number: (OCoLC)239499620 Subject: Nuclear power plant operators -- Workload -- United States. Excerpt: . . . 2 THE EFFECTS OF INTERFACE MANAGEMENT ON TASK PERFORMANCE This chapter addresses the effects of interface management on personnel task performance. The discussion is divided into two sections: the first addresses the development of a model to describe the potential effects of interface management on task performance based on a cognitive analysis of their demands. Then analyses are discussed to determine whether there is support for the potential effects in complex, real-world, computer-based systems. In the second section the effects of HSI design features on the performance of interface management tasks are identified. 2. 1 Model of the Effects of Interface Management on Task Performance Model of Interface Management Effects To model the potential effects of interface management tasks on primary tasks, an analysis was performed within the framework of theory and research on human information processing and cognition. To adequately perform any task, two conditions need to be satisfied: (1) there must be sufficient cognitive resources available to do the task, and (2) there must be adequate information available (Norman and Bobrow, 1975). Cognitive resources are devoted to processes associated with long-term memory, working memory, and attention. According to multiple-resource theory (Wickens, 1991), there is only a finite amount of cognitive resources available for task performance. This relationship has been referred to as a performance-resource function. Simply stated, tasks are performed well when there is a match between the resources demanded and the resources supplied. When the...

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