provement that results from solving bits of the whole problem will be significant If solutions to small bits of the total are ignored, then nothing will be accomplished

Human factors engineering will help solve a bit of the whole problem The lack of response to the human factors engineering approach is one of the outstanding failures in occupational and product safety efforts Human factors engineering considerations have not been explored as at least a partial answer to safety problems This neglect is partially due to lack of understanding the role of human factors engineering in occupational and product safety

The examination of human factors engineering, combined with the traditional approach, clearly establishes its role in the safety movement Among benefits that may be expected are

1 Greater system effectiveness.
2 Fewer performance errors
3 Fewer accidents resulting in injury or damage to property
4 Minimizing redesign and retrofit after the system is operational—if applied at the design phase
5 Reduced training time and cost
6 More effective use of personnel with less restrictive selection requirements

The role of human factors engineering will become more significant as systems become more and more complex and automated The application of human factors engineering is indispensable as a basic consideration in the design of future systems if optimum safety and system effectiveness are to be achieved

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