Technical Note Structures and Floating Systems Network



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Title: Human & Organizational Factors in Facilities Design of the Future

Category: Date: Cronk:

Summary with high consequence accriteria. Every service with high consequence accriteria. Every service and onneative species, indicates that approximately 80% of these accisions have their nod causes in human and organizations flators (HOP). Approximately 80% of the HOP-caused accelerate occur in operations, but mere than 95% of these have their amendments in design and construction. Association and the service of the HOP construction of the amendment of the service of the service of the structural and hardware appears of these systems.

Introduction (Description of an Accident)

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compression models. The pump and the processor of the pump and the processor of the processor of the pump and the processor of the pump and the pump

e production control rount.

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etic (k has been done (a) and organization of these surface of those have the control or those have the control or those the control or the co

Design of the Future thers and safety professionals in the man re slowly began to realize that most of it is has been done on 20% of the proble of major accident have root causes found and organizational factors, HOF (Figure

initiations. Hardware is easier to "lix" than diorgantations, observation is not unique to the marine A similar observation can be made about cidents involving complex systems such as rigt bridges, dans, nuclear power plants, ness, trains, and automobiles. People are the

primary problem, not the systems. There is much to be boarded by the problem of the problem of the problem of the sound for the problem operations of the designed by recognizing the promisel brindness caused by prior, the recognizing the promisel brindness caused by prior, the much prior of suid-did brindness caused by prior, the caused the recoists ways of some redividuals. The human of coparational elements of our systems must be element of our systems are, and each of these need to procedure of carried to the carried of the service of procedure of carried to the carried of the service of the carried of carried to the carried of the service of the carried of carried to the carried of the service of the carried of carried to the carried of the service of the carried of carried to the carried of the service of the carried of carried to the carried of the service of the procedure of carried to the carried of the service of the Most state and the design of the few of the Most state and the design of the few of the Most state and the service of the service of the service of the Most state and the service of the service of the service of the Most state and the service of the service of the service of the Most state and the service of the service of the service of the Most state and the service of the service

manage cises stuttors in the system they occur presented seeded procedure, provision for set external creating, planning and sheelding to exhibit provision and the system of the students of the provision of the system of the system of the provision of the system of th

semination. The potential for information filtering (e.g., things are better than they really any) must be encognized. Shaution examenees needs to be promoted, considerable and the state of the promoted congenizational seeds shall the enough endough the control of the state of engonemous applications to marine systems is discussed in [1]. A generic human factor engineering imprementation streetly is reviewed in [2].

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Figure 1 Lessons from the ratio (pairs beg). Short and Long Term Implication Lessons from the past need to be heeded or they will 1 repeated. The short term and long term implications implementing HOF in design are more reliable operation social-effective operations for the company. Conclusions & Recommendations

operations free of costly, deveatating accidents.

• Evidence indicates that implementation of HOF throughout all life cycle phases of a project is necessary and cost-effective.

• Assure that BP operate confidently as a leading high reliability organization known for safe operations and protection of propenty. Ite, and the environment

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Bureau of Shipping Guidance Notes on the Application
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14294, May 2002.
3. R.G. Bea. "HOF in Design and Operation
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ns. Contacts
in 1. Christy Hard, UTG Houston, (281) 368-25
ion 2. Pat O'Connor, UTG Houston, (281) 366-29
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D-2914 TREX-22880.002