The Process Safety Professional in a Net Zero World

Hazards32

lan Sutton October 2022



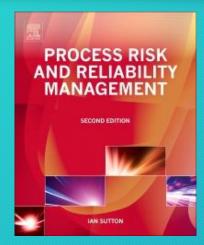


Four Analogies

1. A sense that "something must be done" 2. The importance of regulations 3. Consistency of reporting 4. The use of process safety management elements

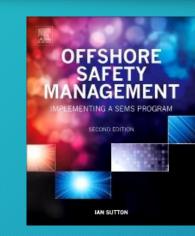


Books

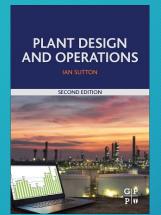














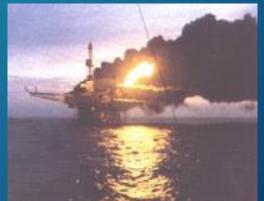


Memory Lane



- Process Safety Not Going Well: Bhopal
- More Incidents
- Organization of Resource
 Counselors
- Piper Alpha: Safety Cases

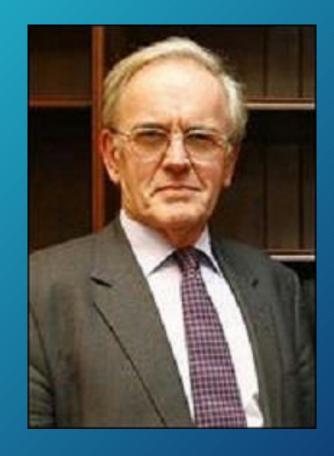






Process Safety Management

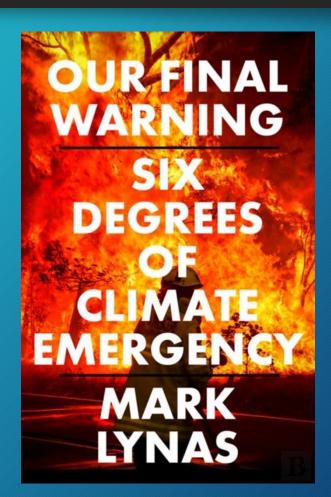






Analogy #1: "Something Must Be Done"

The Uninhabitable Earth Life After Warming David Wallace-Wells



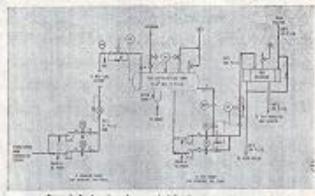


Analogy #2: Regulations





Analogy #3: Content and Consistency



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Applications remained parameters have not

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Operability Studies And Hazard Analysis

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Analogy #4: Management Elements

- 1. Employee Participation
- 2. Process Safety Information
- 3. Process Hazards Analysis
- 4. Operating Procedures
- 5. Training
- 6. Contractors
- 7. Prestartup Safety Review

8. Mechanical Integrity
9. Hot Work
10.Management of Change
11.Incident Investigation
12.Emergency Planning and Response
13.Compliance Audits
14.Trade Secrets



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Technical Information







Hazards Analysis

Impact Negligible Significant Minor Severe Moderate Very Likely Med Hi High Low Med Medium High Likely Low Low Med Medium Med Hi High Likelihood Possible Medium Low Low Med Med Hi Med Hi Unlikely Low Low Med Low Med Medium Med Hi Very Unlikely Medium Medium Low Low Low Med



Participation

12





Systems Thinking

13



 Resource Depletion (Peak Oil) • Biosphere Loss Population Increase/Decrease Economics



Conclusion

- 1. A sense that "something must be done".
- 2. The importance of regulations.
- **3. Consistency of reporting**
- 4. The use of management elements.

