Common Procedural Execution Failure Modes during Abnormal Situations

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ABSTRACT

The Abnormal Situation Management® Consortium\(^1\) funded a study to investigate procedural execution failures during abnormal situations. The study team analyzed 20 public and 12 private incident reports using the TapRoot® methodology to identify root causes associated with procedural operations failures. The main finding from this investigation was that the majority of the procedural operations failures (57%) across these 31 incident reports involved execution failures in abnormal situations. The results of the initial analysis were used to develop a conceptual framework for characterizing procedural operations failures from the perspective of identifying opportunities to improve the procedural management system. Specific recommendations include potential information to capture from plant incident to better understand the sources of procedural operations failures and improve procedural operations in abnormal situations.

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