# Management of change: relocating moisture removal column

­Table 10-6

The next example illustrates the essential principle of an important safety concept called “management of change.” A management of change analysis should be conducted before changes to the experimental apparatus, materials, or procedure are implemented to evaluate whether the planned changes present new risks and how any new risks should be managed.

A moisture removal column, consisting of a plastic housing loaded with desiccant located downstream of a gas regulator, was relocated to another gas system running at significantly higher pressure.

| **Division:**  **Chemical Engineering** | | **Description of Operation: Removal of desiccant column from one gas system and placement on another** | | | **By:**  **Date:** |
| --- | --- | --- | --- | --- | --- |
| **What if?** | **Answer** | | **Probability** | **Consequences** | **Recommendations** |
| Column is not rated for pressure of new system | Column could explode | | Probable, if no lower rated component in gas stream | Severe | Assure column is rated for cylinder pressure or install an overpressure device with relief pressure below pressure rating of column |

This file is excerpted from “Identifying and Evaluating Hazards in Research Laboratories: Guidelines developed by the Hazard Identification and Evaluation Task Force of the American Chemical Society’s Committee on Chemical Safety”.

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