RBI Implementation and Results in a Gas Treatment Plant

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Abstract

Since its publication by API in 2001, RBI is the methodology used globally for the risk analysis of components in plants and the design of inspection plans.
Even though this tool has been thoroughly applied, different experiences indicate improvement opportunities in aspects such as using softwares for the analysis and management of information and results, design of inspection plans, and, essentially, phases of implementation of the proposed plans.
During 2014 the RBI methodology was implemented in equipment and piping of a Dew Point Plant, belonging to YPF Santa Cruz Oeste.
The risk analysis was updated after the unit was stopped in 2015 and a series of activities proposed in the initial RBI were developed.
The aspects and main results of the project developed between 2014 and 2018 are presented, focusing in the relationship between the risk level of the components and the design of the integrity plans, and in the comparative evolution of the risk matrix observed in the feedback and update analysis phase. The benefits of the application of the RBI methodology are quantified.

Key words: risk, RBI, integrity management, inspection, equipment.