Rural Water Association of Arizona - 20th Annual Technical Conference

Wed, 01/12/2011 - 10:27 — lchilds  

**Event Date:** Tue, 03/08/2011 (All day) - Thu, 03/10/2011 (All day)  

**Location:** Crowne Plaza San Marcos Golf Resort, Chandler AZ

**Murphy’s Law Buster—FMEA Improves System Reliability and Saves Costs**

Ernie Borgoyne, Pine Creek Canyon Domestic Water Improvement District

No doubt you’ve heard Murphy’s Law - “Anything that can go wrong will go wrong”. A Failure Mode and Effects Analysis (FMEA) helps minimize this reality by providing a structured method for identifying potential failures in a complex system and quantifying the effects in terms of a Risk Priority Number (RPN). By focusing on the highest RPN values an action or maintenance plan can be developed that improves reliability and mitigates overall risk. FMEAs are most effective during system design but can be performed anytime. This presentation will first explain the purpose and benefit of a structured Failure Modes and Effects Analysis of your system. Then the fundamental steps of Failure Modes Identification (a high level system description identifying failure modes that may occur) and Risk and Effects Analysis (matrix listing each of the failure modes along with; potential effects, severity, potential causes, probability of occurrence, current controls, and probability of detection) will be explained in detail. Finally an actual application of an FMEA to a Water and Wastewater treatment facility and results will be discussed.

Read more about FMEA in Ernie's [Blog](http://ceptara.com/blog/FMEA-improves-system-reliability) "FMEA Improves Your System Reliability"

To find out more about the Annual Conference [click here](http://www.rwaa.info/view/march-8-10-2011-technical-conference)

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**Links:**
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