E²G INDUSTRY
INSIGHTS

SPRING/SUMMER 2015 | VOLUME 1

E²G UTILIZES 3D IMAGING TO TRANSFORM YOUR MECHANICAL INTEGRITY PROGRAM INTO A VIRTUAL REALITY
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3D Imaging and spherical photography are moving Mechanical Integrity (MI) programs from P&ID environments to a virtual world. Rather than utilizing paper files or electronic folders on a server, users can virtually immerse themselves within the plant conditions by employing the use of spherical photography. From an office or a mobile device, users can “virtually move” to a location where the 3D photography was acquired, and view their sites as if they were standing there. With spherical photography allowing for a nearly complete view from the camera positions, users can interact and retrieve data sets related to MI, including platforms, specification sheets, equipment photographs, equipment data plate photographs, specific equipment information, and additional folders containing equipment history.

The background of this platform is 3D Laser Scan (3DLS) data, which provides accurate 3D data coordinates. This background data can establish highly accurate physical locations within your plant or terminal. It can also be used to take measurements from freeware applications. While not visible to the common user, the 3DLS data is the foundation behind all that is visible and can be accessed if needed. With data captured 3D, MI programs can be established or updated with minimal physical field visits, thus reducing associated travel costs and time, while increasing the safety of personnel. In the event a piping circuit (isometric drawing) or an equipment drawing is not available, a CAD technician can complete
these tasks from the comfort of their own office. Utilizing the 3D Imaging and spherical photography platform keeps field time at a minimum, while production can increase as a result of having the data available virtually and in a more timely matter. This platform allows all users (from novice to advanced) to view equipment and its associated data virtually, and will also support management, operations, planning, and training groups in that the entire site’s assets, whether operational or mechanical, are available to the owner user at the touch of a button.

CONTACT
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