

# Digital transformation of safety inspections -the next step for safety of staff

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## ABSTRACT

With new technology being rapidly introduced to the nuclear industry, there is no question that there is pressure to stay modern. Employing the forefront of smart equipment and machinery requires the best in management. For example- Pre-start checks for machinery, requires careful compliance. Occupational health and safety and operational safety, all imperatively rely on the most modern regulations. In the nuclear world this is particularly important; equipment providing powerful, but potentially hazardous scenarios if not operated correctly. Luckily for the mining and nuclear industries mobile devices are providing a powerful and modern way to ensure management can stay on top of all business operations.

Digital safety inspection checklists are embracing the versatility of smartphones and tablets to give operators new ways of recording data and management new insights. Safety inspection applications are widely accessible on nearly all modern smartphones and tablets available today. Staff can furtherly take advantage of camera, speech to text and annotation features for more diverse input; alongside standardised response, automatic GPS/time stamps and offline functionalities for an easier and more efficient process. All data collected can then be furtherly processed to be fed back to the operator for use, providing automatic corrective actions, notifications and advisory content. No longer are operators required to sift through cumbersome manuals only to find there is no content applicable; all reference material can be attached to the highly customisable checklist and safety procedure. Supervisors and managers can provide staff with the latest regulatory content as well compressing their entire inspection to the size of a tablet or a smart phone.

## Conclusion

In today's fast paced and competitive environment it is crucial to stay up to date; mobile devices really can give the Nuclear Industry considerable advantages within equipment maintenance and safety inspection.