

In-situ Gas Turbine Visual Inspections: taking it to the next level...

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Leveraging existing World class image reproduction and digital measurement technology with emerging AI-powered algorithms is enabling Waygate Technologies deliver the most capable borescope system available today. Waygate Technologies recognises in-situ visual gas turbine inspections are critical for determining continued asset serviceability. Compile much more contextual information into each and every image or video by using customised inspection plans suited to your engine application (Menu Directed Inspection templates). Enable consistency with inspection labelling and sentencing processes; add contextual information at the point of inspection to ensure data integrity; eliminate any need for manual note taking; and use AI to help ensure defects are not missed whilst performing automated tasks that help uphold inspection quality standards. We explore how such advanced onboard tools are used to create optimized workflows that culminate in shorter inspection times, greater inspection repeatability, increased probability of detection whilst reducing human factors to enable Inspector's focus on what's really important whilst working on-site. Post-inspection analysis is enabled by leveraging digital connectivity to our powerful proprietary cloud portal (InspectionWorks). Live transfer of inspection data to IW is now a reality ensuring data is securely backed-up and ready for onward sharing and analysis. We touch on how this online platform enables users to continue extract value from inspection data. Keywords: visual inspection, borescope, measurement, artificial intelligence, cloud