

# SPECIALIST PACKAGE

## REMOTE DIGITAL VISUAL INSPECTION CAMPAIGN SUPPORT

### THE PURPOSE

This document has been prepared to help our clients and the supply chain understand the technical capabilities, benefits and services associated with our world-leading RDVI Campaign Support services.



# VERITECH

# RDVI CAMPAIGN SUPPORT

Regardless of the asset, turnarounds are major undertakings that often stretch project time, manpower, and technical capability. The Vertech Remote Digital Visual Inspection (RDVI) Campaign Support Package has been carefully curated with the express goal of removing these issues by providing an unparalleled RDVI inspection service that meets the requirements of engineers, planners and regulatory bodies.

## PACKAGE BENEFITS

The Campaign Support Package provides the assistance you need to keep your project on time and to budget. Some of the key benefits of this package are:

- ✔ Dedicated, experienced, skilled, motivated and driven RDVI teams.
- ✔ Increased number of repeatable, comparable inspections for future degradation analysis.
- ✔ Vertech owned, operated and maintained core RDVI equipment.
- ✔ A reduction in number of staff/personnel on-site and subsequent logistics.
- ✔ Robust RDVI specific reporting processes.
- ✔ A reduction in sim-ops clashes and high-risk activities.
- ✔ Dedicated and robust procedures for inspection of all types of assets, plants, processes and pressure equipment.
- ✔ Increased process integrity data capture for process/operations.
- ✔ Increased data availability for asset integrity management assessments.
- ✔ A reduction in Confined Space Entries (CSEs) and intrusive access requirements.
- ✔ Bespoke and specialist access tooling.
- ✔ Full turnkey solution.



## COMMONLY INSPECTED ASSETS

- ✔ Absorbers
- ✔ Aviation and Aero-derivative Engines
- ✔ Acid Gas Incinerators
- ✔ Air and Nitrogen Receivers
- ✔ Boilers
- ✔ Coil Systems
- ✔ Columns
- ✔ Combustion Engines
- ✔ Compressors
- ✔ De-Aerators
- ✔ Dehydration Beds
- ✔ Electrical Exchangers
- ✔ Fin Fan Exchangers
- ✔ Flare Knock Out Drum
- ✔ Flow Meters
- ✔ Generators (Electric Motor)
- ✔ Headers
- ✔ Heat Recovery Steam Generators
- ✔ Membrane Filters
- ✔ Printed Circuit Heat Exchangers (PCHE)
- ✔ Pressure Piping
- ✔ Process Controls - Valves etc.
- ✔ Propane/Ethylene/Methane Chiller
- ✔ Reboiler Exchangers
- ✔ Regeneration Packages
- ✔ Scrubbers
- ✔ Separators and Condensers
- ✔ Shell and Tube Exchangers
- ✔ Steam Systems
- ✔ Turbines (Steam and Gas)

## VERTECH INTEGRATED EQUIPMENT

**EQUIPMENT MANUFACTURER RELATIONSHIPS**

Vertech has an extensive range of standard and custom-made systems and tooling. Our team also works directly with leading Original Equipment Manufacturers (OEMs) to improve many of the standardised systems to include advanced functions, resulting in a higher level of detection and integration. Over the years, several of these innovations have been so successful in our previous projects that OEMs have recognised their value and integrated them into their open market products.

**VERTECH CUSTOM TOOLING**

Knowing and understanding key inspection locations is a skill that only comes with many years of practice and on-site experience. In many specialised situations, the tooling we require to take the inspection system to these locations simply doesn't exist or isn't readily available. For these projects, our team has built its own sets of custom tools. These specialist access tools are exclusive to Vertech and help us deliver more efficient and accurate results.

**OWNING & MAINTAINING EQUIPMENT**

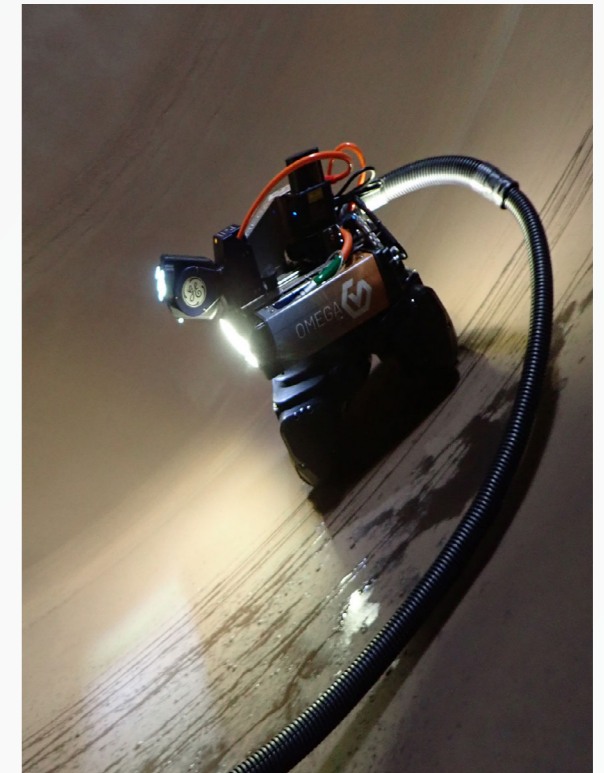
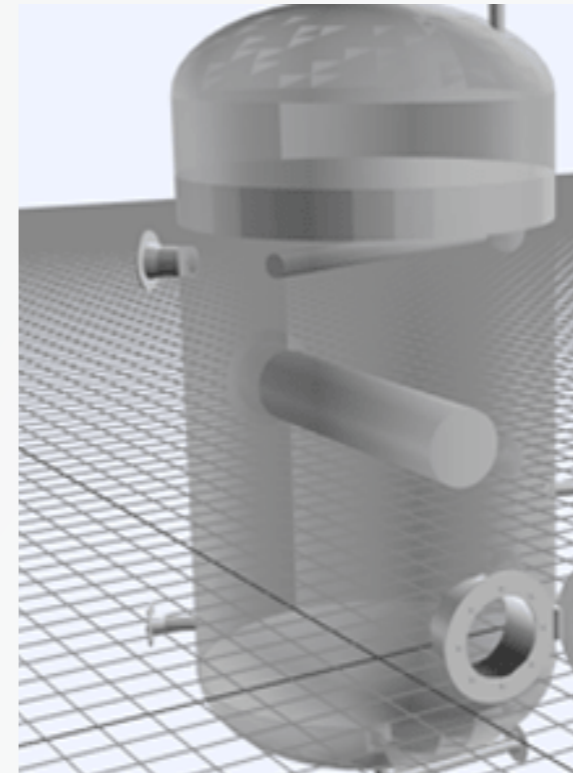
We understand that with the tight time frames of a shutdown, our customers value speed and efficiency. As such, the Vertech RDVI team own, maintain and operate all of their core inspection systems. This ensures that all sets of equipment and associated access tooling are fully serviceable when mobilised to site. We also keep a supply of the most crucial parts, lenses, adapters, and associated accessories on hand so if a mishap were to occur, we have capacity to ensure there are no major delays to the project.

# OUR TEAM

You need the right people with the proper training to get results. Vertech is proud to have some of the world's most experienced RDVI technicians as part of their team, ensuring that you get an accurate outcome the first time, every time.

Our team of specialists have in-field execution experience and are equipped with an extensive range of proprietary equipment. This offers an integrated execution approach and inspection approach that meets the requirements of your engineers, planners and statutory inspectors, helping you get results even when your contracted day-to-day resources are stretched.

Our extensive recruiting process requires each applicant to display skills across a wide range of areas in the initial stage before progressing. Our RDVI-specific training program fully prepares our team for the field by educating them in six areas: systematic inspection procedures, degradation identification, tooling identification competency, tooling application competency, process optimisation training, and safety training.



With our team's vast experience, we bring more to every inspection. Drawing upon years of global expertise in degradation and operational issues allows us to help you further reduce risk and increase your confidence in operating the plant reliably and safely.

## TO GET THE RIGHT RESULTS, YOU NEED THE RIGHT PEOPLE

### SYSTEM INSPECTION PROCEDURES

RDVI technicians are trained in systematic inspection procedures to enable higher levels of coverage, record, secure and prepare data in a logical format for communication, and correctly perform the post-inspection review processes.

### DEGRADATION IDENTIFICATION

Our team has been trained in degradation identification and detection utilising 2D imagery. This is important as technicians must know what they are looking at to capture all relevant data.

### TOOLING IDENTIFICATION COMPETENCY

Vertech technicians are trained across a range of digital camera systems, so they know what camera is required and why, how to set it up correctly and what specific lenses need to be applied to get the best results.

### TOOLING APPLICATION COMPETENCY

Our team is trained in using and applying specialist support tooling that we design and build to ensure cameras are placed in the correct focal ranges, giving the clearest possible view of potential degradation.

### PROCESS OPTIMISATION TRAINING

Vertech RDVI technicians are trained in process and operational aspects to ensure they can detect and highlight indications of process reliability, helping your functional team run your facility at the highest efficiency.

### SAFETY TRAINING

Our team has been trained to safely use, operate, and get equipment into high-level work environments without causing sim-ops conflicts, incidents, or accidents.

# KEY CONTACTS

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