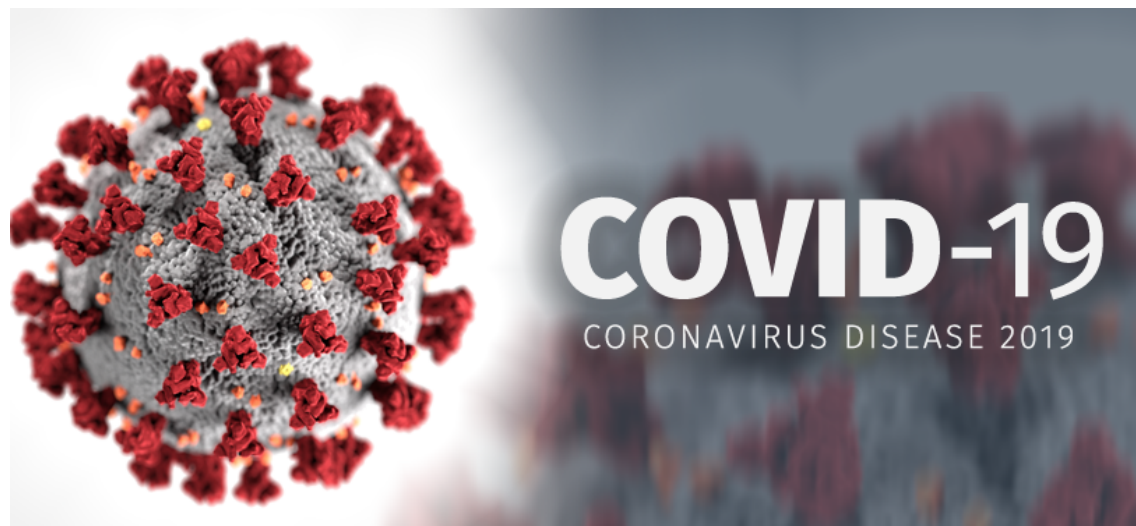




## Ingenia Newsletter - March 2020



Ingenia was an early adopter of the virtual workplace, prior to the current COVID-19 scenario, with flexible working arrangements being an ongoing option to staff when required. This allowed the business to swing into this arrangement again without business interruption. With only critical staff currently in the office, full connectivity is being maintained with colleagues and clients. We are conducting internal meetings via Microsoft Teams and external meetings via Teams and Zoom. Both have well developed document sharing features, so it's nearly as good as being in the boardroom. The morale in the team is high and we are all motivated by the challenge and responsibility in supporting our clients to maintain momentum in their respective project planning and delivery. So, it's business as usual at 101 Henley Beach Road. Here is our COVID-19 management strategy below:

### **IMPORTANT NOTICE: Coronavirus (COVID-19) Risk Management**

The health of our people, visitors, customers and contractor's is important to Ingenia and it's important we take steps to protect everyone's health and wellbeing from COVID-19.

1. Restricting entry for office to anyone experiencing the following,
  - a. If you have been in contact with a person isolated or confirmed with COVID-19.
  - b. If you have travelled from overseas or been in close contact with those recently who has travelled overseas within 14 days.
  - c. Flu-like symptoms – shortness of breath, cough, sore throat.
  - d. For those who do not pass Ingenia's symptom checklist situated at reception.

Where anyone who experiences any of the above is to not attend Ingenia workplace for 14 days unless cleared by a medical practitioner.

2. Maintaining social distance of 1.5m and enforcing social distancing recommendations.
3. Non-essential staff (i.e. visitors and guests) are not recommended to enter the workspace.
4. Actively encouraging sick employees to stay home and when possible to work externally.
5. Minimising contact among workers, clients and customers by replacing face-to-face meetings with virtual communications and working from home.
6. Restricting non-essential travel, and replacement by virtual communications where possible.

- 7. Encouraging workplace hygiene including regular cleaning of workspace and self-sanitising.

Concrete Chimney UAV Inspection



Ingenia have added visual inspection to the services delivered from the UAV. The obvious advantages with visual inspection done in this method are the speed in which an inspection can be done and the safety risk mitigation through not having personnel in elevated platforms or on scaffolding and via rope access. The cost benefits far outweigh the alternative methods of visual inspection.

Ingenia has adopted software that is specifically designed for this type of inspection work. We incorporate complex algorithms that drive Artificial Intelligence and Machine Learning. The software analyses the data and will determine defects from the normal occurrences commonly found on assets. This takes away any subjectivity common with having numerous visual inspectors on the project

Asset managers can use this to periodically monitor the deterioration of defects and place priority on those that require remediation. Project planning then becomes a simplistic exercise.

Defect

STATUS

Identified

DEFECT TYPE

Concrete Cancer

ELEMENT

Other

COMMENTS

Chimney Crown cracked and dislodged within chimney. Local cracking only, not effecting serviceability of structure. Minor risk of dislodged material within chimney.

SAVE

CLOSE

RISK RATING

Priority 2


ROOF CONSTRUCTION TYPE

Unknown

ROOF MATERIAL TYPE

Combination

CLOSE



Compressor Building – Power Station Client



Ingenia is assisting Smart Fabrication in the engineering, design, fabrication and installation of a compressor building for a diesel generation power client. The compressor building will house not only the compressor, but the monorail crane and associated fixtures required for the operation and maintenance of the compressor. The roof is currently going on the building and insulated cladding is being installed forming the walls. Finally, the ducting will be added to complete the scope of works.

For this project, Ingenia undertook structural engineering and design of the building along with survey on the column installation. This project is currently tracking well under budget for the client and in line with their challenging timelines. A successful completion of this put the lead contractor in a good position to secure the next stage of the Power Station project.



### **Ingenia's Contracts and Tender Management**

Ingenia was engaged by a long-term brewing client recently to assist in managing the contract development process with their contractors and sub-contractors on a civil earthworks and electrical infrastructure design, build and install project. With good commercial experience, Ingenia was able to combine this with superior knowledge in project management and design processes to tailor a contract from the standard AS4910-2002: Australian Standard General Conditions of Contract for the Supply of Equipment with Installation template. This gave the client the ability to better plan the project while Ingenia overlayed the expectations of the outcomes with what the contractors had proposed and quoted. There were a number of critical areas that were highlighted for review and clarification, which would have major consequences if not handled correctly. Our client was satisfied with the attention to detail and how Ingenia proposed clarifications on their behalf.

Ingenia has assisted a number of clients primarily in the food and beverage sector with complex contract management. This has included bottling line installations and relocations. Contact Ingenia to discuss this further.



### **Meet Ali Khiabani**

Ingenia welcomes new senior structural and civil engineer Ali Khiabani. Ali comes to Ingenia with 19 years of experience in a wide range of projects in industrial and residential building, utilities, bridges, offshore Oil & Gas structures, and telecommunication tower design and construction in Australia, Iran and Venezuela.

Ali has Bachelor of Structural Engineering from Sahand University of Technology and a Bachelor of Civil Engineering from the University of Tabriz. He is also certified with MIEAust (Structural and Civil). Ali's experience includes projects as the structural engineer, project engineer & construction manager of

industrial steel structure, oil & gas and bridges. Additionally, he has worked on maritime infrastructure scopes as the project engineer including quay walls, jetty, ports, harbor and offshore projects (reinforced concrete design/construction). He also has experience in heavy industrial loadouts and tilt panel design, along with reinforced concrete and heavy-duty foundation construction.

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