



INTEGRATED FIRE SERVICES **CAPABILITY** **STATEMENT**

ADVISORY | CAPITAL PROJECTS | OPERATIONAL ENGINEERING



STRATEGIC PARTNERSHIP

At Waterline, we partner with clients to deliver multi-discipline engineering projects that expand and improve operations within the resources, heavy and industrial sectors. Our role is to help asset owners and operators safely bring projects to life and optimise ongoing operations. With deep site-based experience across structural, mechanical, electrical, civil, and process engineering, we bridge the gap between advisory and execution, ensuring engineering solutions are practical, compliant, and operationally viable.

We have partnered with **Omnii**, a specialist fire consultancy providing Fire Engineering, Fire Protection Services, Special Hazards, Dangerous Goods, and Fire Safety Compliance services. Omnii's independence and technical depth enable delivery of compliance and risk-based solutions with appropriate fire control measures. Omnii's work is underpinned by an ISO 9001:2015 Quality Management System, ensuring a consistent approach to safety, compliance, and project delivery.

Together, we provide an integrated delivery model that embeds fire safety within engineering design, ensuring compliance, constructability, and operational performance from feasibility through commissioning.

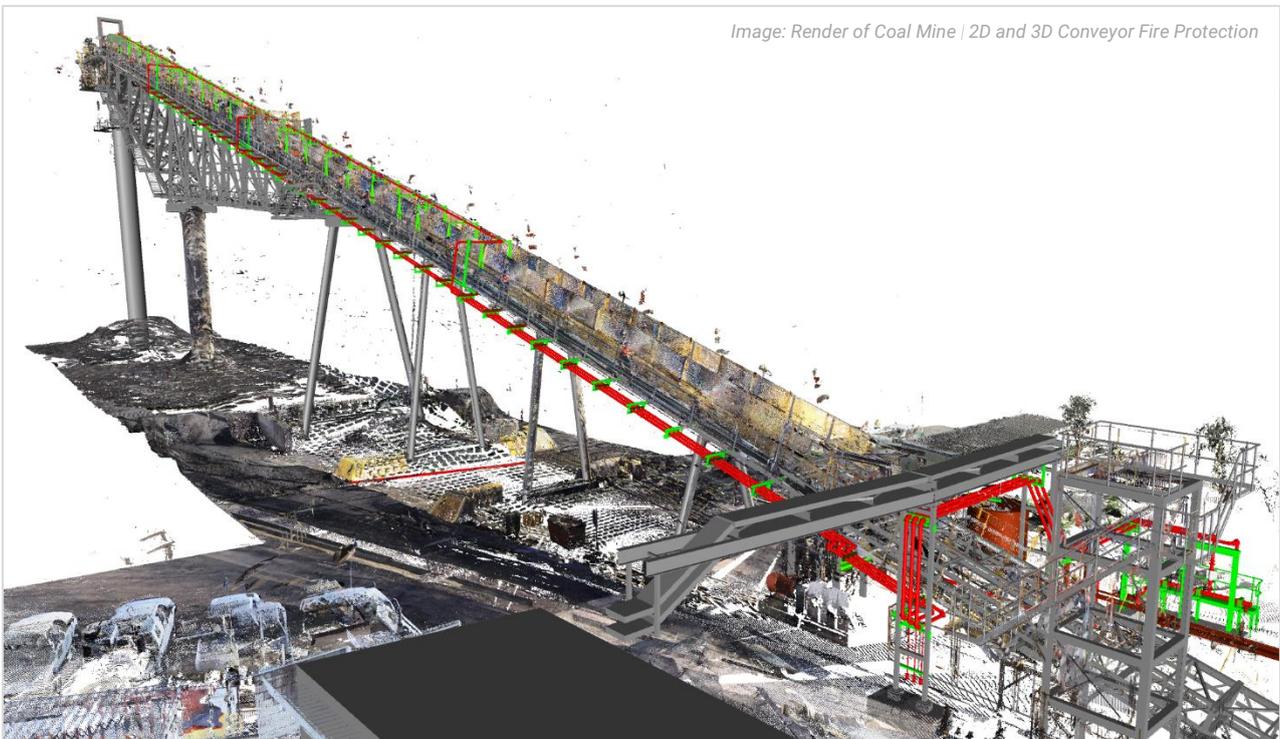


Image: Render of Coal Mine | 2D and 3D Conveyor Fire Protection

TECHNICAL CAPABILITY MATRIX

CAPABILITY	WATERLINE EXPERTISE	OMNII EXPERTISE	INTEGRATED OUTCOME
Civil & Structural	Civil / structural modelling, structural integrity assessments, modular steel design	Fire wall design and specification, riser and cavity protection, passive fire systems	Verified structural integrity under fire and load conditions
Mechanical	HVAC, water, and waste systems design	Foam, gas, sprinkler, and deluge suppression design	Complete fire suppression system integration
Electrical & Control Systems	Power distribution, hazardous area compliance, controls integration	Detection, alarm, and hypoxic systems	Seamless control and emergency monitoring systems
Mining & Industrial	Shutdown planning, site readiness, owner's engineer and project management	Fire hazard assessment, fire safety study for camps, process plants, petrochemical facilities and renewable energy sectors	Accelerated commissioning and first-time compliance

ENGINEERING METHODOLOGY

Our integrated methodology brings compliance and constructability together using digital engineering tools and process rigor:

- ⚙️ **Data Capture & Modelling:** Laser scanning and BIM integration (Revit, Navisworks) to verify as-built accuracy
- ⚙️ **System Design & Simulation:** CFD smoke modelling and Fire Dynamics Simulator (FDS) analysis for performance-based validation. Hydraulic modelling and analysis
- ⚙️ **Interface Engineering:** PLC/SCADA integration for real-time detection, alarm, and suppression controls
- ⚙️ **Verification & QA:** FRL continuity checks, HAZOP validation, and clash detection ensure compliance before construction
- ⚙️ **Commissioning Support:** End-to-end readiness reviews, FAT/SAT documentation, and operational handover

This workflow eliminates design conflicts and rework, achieving faster commissioning and reduced total project cost.

UNIFIED ACCOUNTABILITY MODEL



SINGLE POINT OF CONTACT

- ⚙️ Streamlined communication across fire, mechanical, electrical, and structural disciplines



COMPLIANCE FIRST

- ⚙️ Aligned with NCC, WHS, NFPA, AS 2118, and FM 7-11 standards



REDUCED PROJECT RISK

- ⚙️ Early validation of test data and FRL continuity minimises redesigns



ACCELERATED COMMISSIONING

- ⚙️ Fire systems integrated from the start for faster return on investment and operational readiness



PROJECT HIGHLIGHT: COAL MINE CONVEYOR

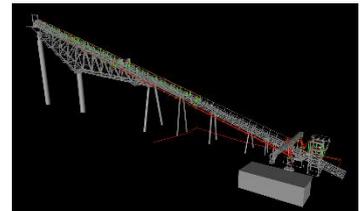
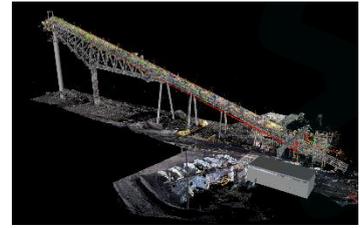
Project: Coal Mine | 2D and 3D Conveyor Fire Protection

Location: Central Queensland

Service: Fire Protection Design & Integration

As part of a Coal Preparation Plant upgrade to support increased product throughput, a fire hazard review was conducted on the 2D and 3D conveyors. The review identified areas of vulnerability and determined that a fixed spray fire suppression system was required to mitigate fire risks.

A Basis of Design was developed to document the existing fire infrastructure and outline the design requirements and upgrades needed for the new system, in accordance with AS 2118 and FM 7-11 guidelines. To ensure accuracy and seamless integration with existing assets, scan data was used to develop a 3D model, streamlining the design process and minimising installation risks. The final design incorporated a fixed automatic deluge system on each conveyor, activated by a linear heat detection system to ensure effective fire control and protection of critical assets.



Renders of a Coal Mine | 2D and 3D Conveyor Fire Protection

SECTORS WE SUPPORT



CERTIFICATIONS & SYSTEMS

- ⚙️ ISO 9001:2015 Certified (Omnii)
- ⚙️ RPEQ & RPEV Registered Engineers (Waterline & Omnii)
- ⚙️ FPAS Accredited Fire Practitioners (Omnii)
- ⚙️ NCC, NFPA, WHS, AS2118, and FM 7-11 Compliance Frameworks

LET'S COLLABORATE

Partner with Waterline and Omnii for integrated, compliance-first engineering and fire safety services.

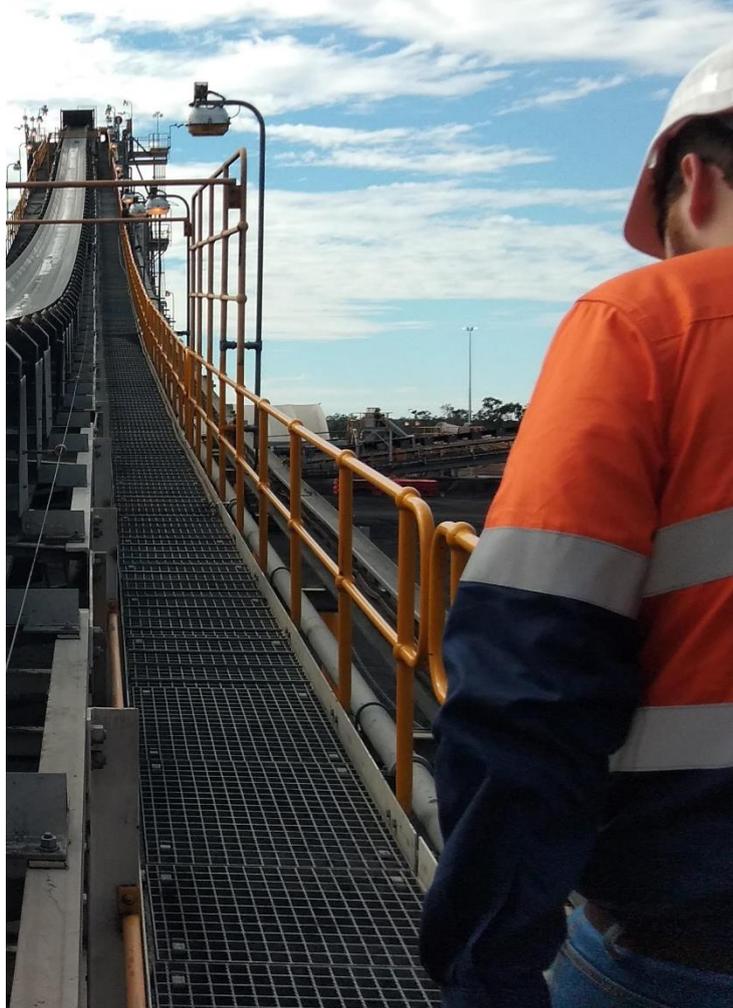
Let's explore how we can support your projects. Call us on 1300 957 111 or by emailing us at info@waterlineprojects.com.

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