

Heavy Lift



About EIC Activities

EIC Activities is CIMIC Group's engineering and technical services business.

Our engineering and risk mitigation expertise provides CIMIC Group with a competitive advantage for winning and delivering profitable projects that also generate value for clients.

EIC Activities ensures the Group's collective experience, technical capabilities, innovations and leading-edge technology applications are leveraged to deliver our client's objectives.

About CIMIC Group

CIMIC Group is an engineering-led services, construction and natural resources leader with a history dating back to 1899.

Powered by 39,000 people, and pioneering technology and engineering, we deliver high-value and sustainable solutions across the lifecycle of assets, infrastructure and resources projects in around 20 countries.

CIMIC Group comprises our engineering and construction businesses CPB Contractors and Leighton Asia, our integrated solutions providers UGL and Sedgman, our natural resources company Thiess (60% ownership), and our development and investment arm Pacific Partnerships – all supported by our in-house engineering consultancy EIC Activities.

Our mission is to generate sustainable returns by delivering innovative and competitive solutions for clients and safe, fulfilling careers for our people. We strive to be known for our principles of Integrity, Accountability, Innovation and Delivery, underpinned by Safety.



Our heavy lift capabilities

The EIC Activities heavy lift team supports projects from early development to execution. Our in-house team is industry award winning in critical lift design, and we work closely with other disciplines to provide full service lift capability.

EIC Activities heavy lift expertise includes:

- applied ground loading
- rigging and equipment design
- jacking and skidding design
- specialised transport design and Self-Propelled Modular Transporter (SPMT)
- hydraulic gantry and launch systems
- marine lifting
- load out/load in, roll on/roll off and lift on/lift off
- construction concept designs, modelling and animation.

Heavy lift services

As a member of CIMIC Group, EIC Activities provides services to CIMIC's Operating Companies exclusively. Our engineers are dedicated to work in the best interests of our clients in order to mitigate risk and identify opportunities to create value.

To achieve this, EIC Activities' heavy lift team provides the following services:

- equipment selection and methodology
- technical drawing, modelling and animation
- technical training delivery
- critical lift review and lifting studies
- safety and incident investigation
- stability and structural analysis.

Case studies



Sydney Metro Northwest - CPB Contractors

Remove Tunnel Boring Machine (TBM)

Challenge

Our challenge working on the Sydney Metro Northwest (Tunnels and Civil Works) project was how to safely remove the Tunnel Boring Machine at Epping for CPB Contractors.

Solution

EIC Activities' methodology used a 500t mobile crane and a steel cradle with a pin connection to move the 700t TBM 50m across the station box floor and rotate it 50 degrees. The move was completed in one shift, eliminating the costs of a second crane and a piled crane foundation and avoided scrapping the TBM.

Case studies

Parramatta Light Rail - James Ruse Drive - CPB Contractors

Bridge move

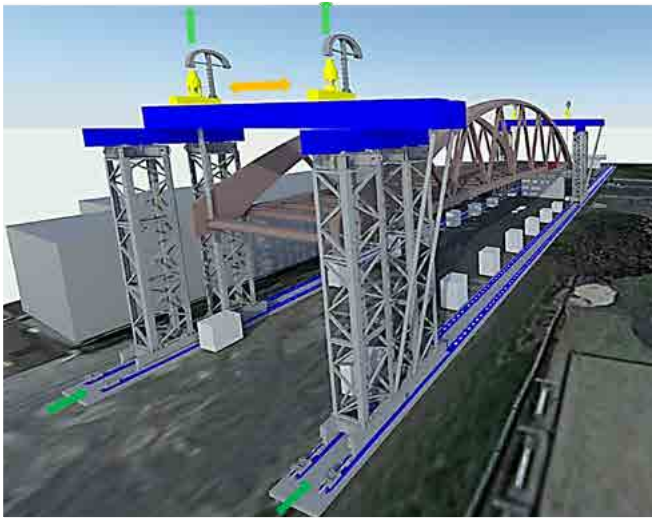
Challenge

EIC Activities was engaged to provide heavy lift support for the moving of a new bridge structure on James Ruse Drive. The lift faced various challenges including the necessity to keep road closures to a minimum, poor ground conditions and the proximity of existing buildings.

Solution

EIC Activities proposed various installation methodologies to overcome the project challenges and developed detailed concepts and modelling of each option. The preferred methodology was then finalised with the selected equipment supplier.

EIC Activities continued to support the project through to delivery stage by conducting regular reviews of the final design.



Contacts



John Potts

Principal - Heavy Lift

John.Potts@eicactiv.com
+61 417 690 738
Brisbane

Summary

- 25 years' experience in the construction industry, specialising in heavy lift design and alternative heavy lift and transport methodologies across various industry sectors throughout Europe and Australia
- BEng (Hons) Mechanical Engineering (1st class)
- MSc Engineering
- CPEng, RPEQ, NER.

Relevant Experience

- design engineering and project management of turnkey heavy lift projects (factory to foundation)
- extensive design experience of specialised transport and heavy lift systems including temporary works requirements.





contact@eicactiv.com
www.eicactiv.com

A MEMBER OF THE CIMIC GROUP
 **CIMIC**