

BULL HEAD SERVICES PTY LIMITED

Consulting Engineers to the Rail and Road Transport, Quarrying, Building,
Civil Engineering and Resource Industries

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Dear Valued Client,

RE: **CAPABILITY STATEMENT - BULL HEAD SERVICES - 2020**

Background:

In February 2002, after 27 years of engineering and management experience, David Bull established Bull Head Services Pty Limited to provide consulting services to the Land Transport, Rail Infrastructure, Quarrying, Building, Civil Engineering and Resource Industries.

David is able to serve the full spectrum of rail industry clients and their projects after having, at that time, devoted at least 18 years to this industry. This included equipment manufacture, project management, contracting and consulting roles for government, private railway companies and major infrastructure maintenance providers.

Bull Head Services is able to offer at least the following services to suit specific client needs:

- Specialist Rail Track, Below-Rail Infrastructure & Rail Safety Management Services
- Documentation & Estimating Assistance
- Tender Support
- Technical Reports
- Project Review & Planning Assistance
- Maintenance Management & Asset Management
- Risk Management, Assessment & Analysis
- Project and Program Management
- Rail Safety Accreditation Documentation, including Boundary / Safety Interface Agreements & Interface Coordination Plans (known as Interface Agreements)
- Rail Safety Audits & Compliance Reviews
- Site Configuration & Condition Inspections
- Incident Investigation and Reporting, and Expert Technical Witness / Legal roles
- Business Development Support

Skill Set:

David's skills are a mix of the analytical engineer, being appropriate to the step by step preparation of documentation, procedures and bids, requiring simultaneous 'eye for detail' to those of the 'big picture' decision maker required for project management.

His key competencies include strategic planning consistent with the client's objectives and the ability to successfully deliver the project, on time and within budget.

His management expertise includes project development and management, risk management, rail safety accreditation and safety management systems, asset management, systems assurance & maintenance planning.

Clients & Assignments:

- **Nationwide Experts** – Engaged as Railway Infrastructure expert for Lawyers, McCabe Curwood acting on behalf of miniature railway enthusiast members trading as Lake Macquarie Live Steam Locomotive Co-operative Society Ltd, of Edgewood, NSW, in a public liability insurance case, in 2020.
- **Transport Heritage NSW (THNSW)** - Undertake a review and rail safety audit of THNSW's Infrastructure Manual for their rail infrastructure on the Thirlmere Heritage Railway Loop Line between Picton & Buxton in 2020.
- **ExpertsDirect Pty Ltd** – Appointed technical expert for Civil Engineering services in 2020.
- **MP Rail Pty Ltd** – Tender Support during their preparation of Sydney Trains' Rail Welding Services Panel RFT, and assist in their responses to Tender Q&As, in 2019.
- **Lycopodium Infrastructure Pty Ltd** – Derailment Investigation Reporting for Pacific National in 2018 at MSC, Cooks River Railway Yard and in 2019, on the Up Main South Line at Mittagong, NSW.
- **Gerson Lehrman Group Council, Texas, USA** – Specialist rail infrastructure consulting by telephone interviews in 2018 and 2019.
- **Transport Heritage NSW (THNSW)** - Undertake a Track Inspection of the Thirlmere Heritage Railway Loop Line between Picton, Thirlmere & Buxton and prepare a Technical Report on the line in 2018.
- **Glencore Coal Queensland Pty Ltd** – Engagement by Holding Redlich, Lawyers of Brisbane to provide expert opinion evidence in relation to a railway construction and rail safety dispute against Aurizon Network Pty Ltd for the Wiggins Island Rail Project in 2017.
- **Y Polymers Pty Ltd** – Prepare an introductory report on resilient rail fastenings in Australasia for the Hyosung Corporation of South Korea in 2017.
- **Lacertus Verum Pty Ltd** – Prepare an independent engineering assessment of incremental costs in ARTC's 2014 Compliance Assessment Resubmission to the Australian Competition and Consumer Commission (ACCC) for the Hunter Valley Access Undertaking (HVAU) between 2016 and 2019.
- **Key Source Rail Pty Ltd (KSR)** – Prepare a regional tamping machine population spreadsheet in 2016.
- **Interfleet Technology (SNC Lavalin)** – Undertake a track condition assessment at Rio Tinto Alcan's (RTA) heavy haul bauxite railway in Weipa, Far North Queensland, as member of an Interfleet Review Team targeting improved rail cycle times at RTA's operations in 2015.
- **Balance Advisory Pty Ltd, Brisbane** – Undertake a track condition assessment of Yennora Railway Yard, prepare a Rail Condition Report and provide advice on asset maintenance plan preparation for Stockland at their Yennora Distribution Centre, Guildford, NSW in 2015.
- **Key Source Rail Pty Ltd (KSR)** – Provide technical expertise to review rail infrastructure training documentation to support their Registered Training Organisation (RTO) status in 2015.
- **Unisearch Expert Opinion and Consulting Services (UNSW Global Pty Limited), Perth** – Provide expert opinion evidence in rail infrastructure and rail safety in relation to the derailment of Pacific National Freight Train No: 1MP5 on 28/10/2010 at Goddard's Crossing in WA, for SRB Legal, Insurance Lawyers of Perth, WA in 2015.

- **Australasian Transport Risk Solutions Pty Limited (ATRS)** – Undertake an Independent Track Assessment Incident Investigation into the derailment of an empty Pacific National Coal Train No: NB901 at Kankool, near Murrurundi, NSW on the ARTC Main North Line on 15 February 2015, for Pacific National in 2015.
- **Saudi Arabian Railway Construction Client** - Undertake a Rollingstock Condition and Asset Management Assessment of second-hand locomotives and wagons in Goulburn and Canberra for a prospective international purchaser from Saudi Arabia and in conjunction with Dawn Alliance member and rollingstock engineer, Warwick Stoddart in 2015.
- **Rail Track Association Australia (RTAA)** – Provide the services of the Field Days Event Manager of the Sydney Trains / Rail Track Association Australia Industry Field Days at Clyde for RTAA in 2014 / 2015 in readiness for the February 2015 event and the Field Days Support Officer for 2015.
- **Martinus Rail Pty Ltd (MR)** - Review their existing Rail Safety Management System (RSMS), and prepare a draft RSMP and associated documentation and process this documentation to comply with the National Rail Safety Accreditation requirements of the Office of the National Rail Safety Regulator (ONRSR) in 2014.
- **Vossloh Fastening Systems GmbH** – Prepare a draft business case strategy for Australasia in 2014.
- **Brookfield Rail Pty Ltd** – Engagement by Herbert Smith Freehills, Lawyers of Perth to provide expert opinion evidence in relation to a track access claim by Co-Operative Bulk Handling Ltd (CBH) to four non-operational NG Grain Lines in the Western Australian wheat belt in 2014.
- **Leighton Contractors Pty Limited (LCPL)** – Provision of rail knowledge services for verification of the handover documentation and railway infrastructure at Enfield Intermodal Logistics Centre (ILC) to Hutchison Logistics Australia (HLA) in 2014.
- **Hutchison Ports Australia (HPA)** – Provision of services as the Independent Verifier for ARTC for the Port Botany Terminal 3 Rail Connection Works at Sydney International Container Terminals (SICTL). Engaged by Burton Contractors Pty Ltd in 2014.
- **Boggabri Coal Pty Limited (BCPL)** – Preparation of their Rail Safety Management Plan (RSMP), as the Rail Infrastructure Manager (RIM) of the Private Siding, being for Boggabri Coal Balloon Loop, including a Rail Safety Audit on, and a Broad Brush Risk Assessment (BBRA) with, BCPL's Bulk Coal Terminal (BCT) Operator, the LCR Group in 2014.
- **Pidgeon Civil Engineering (PCE)** – Provide support for the Engineering Assurance Data Transfer of Assets into the Sydney Trains Ellipse Asset Management System, to:
 - JHR for the Clyde Connection Works Project in 2014.
 - TfNSW for the Wynyard Walk Enabling Works Project in 2014.
- **Boggabri Coal Pty Limited (BCPL)** – Preparation of a Rail Track Inspection Report for Boggabri Coal Balloon Loop and Operational Risk Assessment with the LCR Group (Bulk Coal Terminal Operator), Pacific National (Rail Transport Operator) and LCPL (Rail Infrastructure Maintainer) in readiness for proposed 30 TAL operations in 2014.
- **Pandrol Australia Pty Ltd** – Preparation of a draft marketing strategy brochure and booklet titled "Buy Pandrol – Buy Australian" in 2014.
- **Bloor Rail Pty Ltd** – Review their existing Rail Safety Management System (RSMS) and associated documentation and process this documentation to comply with the National Rail Safety Accreditation requirements of the Office of the National Rail Safety Regulator (ONRSR) in 2014.

- **Australasian Transport Risk Solutions Pty Limited (ATRS)** – Undertake an Incident Investigation into a broken wheel of a SCT Logistics Interstate Freight Train Locomotive SCT001 hauling Train No: 1PM9 and causing track damage on the SG Eastern Goldfields Railway (EGR) between Perth and Grass Valley (east of Northam) in WA, for SCT Logistics in 2013.
- **Australian Rail Track Corporation Ltd (ARTC)** – Undertake a review of a Safeworking Incident associated with the use of a Portable / Temporary Turnout (TTO) in Victoria, engage in the Risk Assessment & Review Process, review of ARTC Engineering Work Instructions, SWMS and response to closing out an Improvement Notice issued by Transport Safety Victoria (TSV), in 2013.
- **Vossloh Cogifer Australia (VCA)** – Preparation of an Australasian Points Motor / Equipment Register Survey for Vossloh Cogifer in 2013.
- **Australasian Transport Risk Solutions Pty Limited (ATRS)** – Undertake a Speed Profile Study and Speed Board Placement Survey for Veolia Transport Sydney (VTS) for the Sydney Light Rail (SLR) Project in 2013.
- **Transfield Services (TS)** – Undertake an Independent Rail Safety & Rail Infrastructure Audit Review in 2013 in response to RailCorp's 2012 Track & Civil Audit of the Airport Line.
- **Vossloh Cogifer Australia (VCA)** – Preparation of an Australasian Locomotives and Tramways Register Survey for Vossloh Transportation in 2013.
- **Australian Rail Track Corporation Ltd (ARTC)** – Preparation of Signalling and Hazards Control Register for Turnouts, Crossovers, Catchpoints, Derailers and Emergency Crossovers in 2013.
- **Tasmanian Railway Pty Ltd (TasRail)** – Preparation of a Tamping Management Strategy Report in 2012.
- **URS Australia Pty Ltd (URS)** – Provide Tender Submission Support for the Design of the Boggabri - Maules Creek Rail Project in 2012.
- **Boggabri Coal Pty Limited (BCPL)** – Prepare a Rail Track Audit Report for Boggabri Coal Balloon Loop in 2012.
- **BHP Billiton – Illawarra Services Pty Limited (BHPB-IC)** – Provide technical advice, RFP and tender review support for their RB14 Rail Optimisation Project in 2012.
- **Thermit Australia Pty Ltd** – Provide advice on potential market development opportunities in 2011.
- **Tasmanian Railway Pty Ltd (TasRail)** – Review of Railway Infrastructure Standards between 2011 and 2013, including development of new Engineering Standards for TasRail's Infrastructure.
- **UK Trade and Investment – British Consulate General** – Provide overview of the Australian Insulated Rail Joint Market and review of draft Concrete Sleepers Market Report in 2011.
- **Rail Track Association Australia (RTAA)** – Provide the services of Field Days Event Manager of the RailCorp / Rail Track Association Australia Industry Field Days at Clyde for RTAA in readiness for 2011 event and the Field Days Support Officer for 2013.
- **Herzog Railway Services Australia Pty Ltd (HRSA)** – Undertake preparation of Rail Safety documentation and Safety Management System for Herzog's proposed submission for Rail Safety Accreditation to the NSW Rail Regulator, ITSIR in 2011.

- **South Maitland Railways (SMR)** – Undertake reviews of rail safety documentation, safeworking access permits and Rail Safety Interface Agreements with Abigroup and Daracon for the RTA's F3 Freeway Extensions in 2011.
- **Transfield Services (TS)** – Provide rail safety assistance and support to establish Interface Agreements for the 370 Railway Overbridges that are maintained by TS for the Country Rail Infrastructure Authority (CRIA) on the NSW Country Regional Network (CRN) in 2011.
- **Leighton Contractors Pty Limited (LCPL)** – Undertake Annual Independent 2nd Party Rail Safety Audit on LCPL National Rail business (LCNR) in 2010 and 2011.
- **Rhomberg Rail Australia Pty Ltd (RRA)** – Provide consulting services, rail safety review, documentation support and undertake gap analysis for Port Waratah Coal Services their Application to the Independent Transport Safety Regulator (ITSR) to register the Kooragang Coal Terminal (KCT) and the Carrington Coal Terminal (CCT) as Private Sidings and to become the Rail Infrastructure Manager (RIM) of the Private Siding in 2010 and 2011.
- **Gujarat NRE FCGL Pty Limited (NRE)** – Provide consulting services and rail safety advice for NRE's proposed Application to the Independent Transport Safety Regulator (ITSR) to register the Wongawilli Railway Line at Dapto as a Private Siding and to become the Rail Infrastructure Manager (RIM) of the Private Siding in 2010 and 2011.
- **Fluor Global Services Australia Pty Ltd (FRS)** – Provide Technical Maintenance and Internal Rail Defects Plan / Standards Development for BlueScope Steel's Port Kembla Steelworks Rail Maintenance Services Project in 2010 and 2011.
- **Transfield Services (TS)** – Provide Rail Accreditation services in connection with TS' RFP Submission to the Country Rail Infrastructure Authority (CRIA) to Provide Management, Maintenance and Operations Services associated with the NSW Country Regional Network (CRN) in 2010. A key member of the Compliance Team for the bid, focusing on Rail Safety and working in association with their consultant's, Lloyd's Register Rail Limited.
- **Leighton Contractors Pty Limited (LCPL)** - Assistance with MPM services and provide strategic advice, including the assistance in the establishment of LS Rail (a Joint Venture between Leighton Contractors and Swietelsky Baugesellschaft mBH of Austria) in 2010, 2011, and 2012.
- **Australian Rail Track Corporation (ARTC)** – Field inspections and prepare scoping for MPM Projects in ARTC NSW South West CRN in 2010.
- **Australian Rail Track Corporation (ARTC)** – Prepare Draft Hunter Valley 200 Plus Plan and Guidelines in 2010.
- **Bilfinger Berger Services Australia (BBSA)** – Provide railway engineering assistance for tender purposes in 2010.
- **Australian Rail Track Corporation (ARTC)** – Prepare Draft Disengagement Plan of the NSW Country Regional Network (CRN) in 2009.
- **Fluor Global Services Australia Pty Ltd (FRS)** – Provide Rail Accreditation services in connection with Fluor / United Group JV's EOI Submission to the Rail Infrastructure Corporation (RIC) to Provide Management, Maintenance and Operations Services associated with the NSW Country Regional Network (CRN) in 2009.
- **Transfield Services (TS)** - Provide Rail Track Structural Assessment Report for Vales Point Power Station Rail Unloading Balloon Loop Track for proposed increase from 25TAL to 30TAL in 2009 and 2010.

- **Enhance Place Pty Ltd** – Provide rail infrastructure advice, in conjunction with K&D Consultants, for the possible reinstatement of the former Lidsdale to Wallerawang Private Siding at their Pine Dale Coal Mine at Blackman's Flat from 2009 to 2011, and as required in 2012.
- **BHP Billiton – Illawarra Services Pty Limited (BHPB-IC)** – Provide Rail Safety Accreditation Support Services for the Kemira Valley (Nebo Main) Coal Line in 2009 and 2010 for their Application to the Independent Transport Safety Regulator (ITSR) to Register the Nebo Main Line as a Private Siding. Prepare Draft Base Operating Standard for the Nebo Main Line.
- **Abigroup Contractors Pty Ltd** – Provision of Rail Strategy Support Services in 2009.
- **Transfield Services (TS)** - Provide support to TS' RIC Country Overbridges Project in upgrading their Rail Safety Management System 2008 and 2009.
- **Australian Rail Track Corporation (ARTC)** - Provide RailCorp Possessions Planning Interface and Trackwork Support for the construction of the new Southern Sydney Freight Line (SSFL) between October 2008 and November 2009.
- **DESEC Limited, Finland** – Provide market research for business development to their Finnish owners for expansion of their turnout tracklaying machine into the Australasian market, between October 2008 and July 2010.
- **John Holland Rail Pty Limited (JHR)** - Provide support of Rail Safety Accreditation and Interface Coordination Plans in 2008.
- **Bilfinger Berger Services Australia (BBSA)** - Prepare documentation for Rail Safety Accreditation Application to the Department of Transport, Energy and Infrastructure (DTEI), South Australia for the maintenance of the Bascule Rail Bridge on the Port River Expressway (PREX) Project in Port Adelaide in 2008.
- **United Group Infrastructure (UGI)** - Provide review of Rail Safety Compliance, including desktop and worksite Rail Safety Audits in 2009.
- **Leighton Contractors Pty Limited (LCPL)** - Assist in the preparation of documentation and systems to enable LCPL to apply for Rail Safety Accreditation under the various Australian state based rail safety regimes in 2008.
- **Australian Rail Track Corporation (ARTC)** - Prepare Project Scope of Works Inspections and Reports for MPM Activities (including Structures, Level Crossings and Formation / Drainage Works) for ARTC South West Region's Lease of the NSW Network (North - South Corridor) in 2008.
- **Westray Engineering Pty Ltd** – Provide technical assistance in the manufacture of mechanically insulated joint assemblies in 2008.
- **Unipart Rail, UK** – Provide business development support for their UK owners for expansion into the Australian market in 2008.
- **Track Australia Pty Ltd** - Provide Rail Safety Accreditation Assistance as their 'Knowledge Consultant' in 2006 to 2008.
- **Delkor Rail Pty Ltd** – Preparation of business case submission for Magna-Switch Project in 2007 and 2008.
- **Rail Corporation NSW** – Preparation of 2008/09 to 2017/18 Asset Management Plan for their Buildings and Sidings Unit, and on behalf of their Strategic Asset Management (SAM) Division in 2007 and 2008.
- **Rail Track Association Australia (RTAA)** - Provide services of Secretary to the RTAA from 2007 to 2016.

- **Transfield Services (TS)** - Assist with detailed planning of MPM Activities on Airport Line rail project for 2008, including ballasting, resurfacing and rail grinding.
- **Rail Track Association Australia (RTAA)** – Prepare History of Rail Sleeper Association Australia, Rail Track & Sleeper Association and Rail Track Association Australia and of Life Members in 2007.
- **United Group Infrastructure (UGI)** - Provide Rail Safety Accreditation Assistance as their 'Knowledge Consultant', including desktop and worksite Rail Safety Audits for 2008.
- **John Holland Rail Pty Limited (JHR)** – Provide business development support to JHR and sales support for their Fessl Rail Parts and Products business venture from 2007 to 2008.
- **Rail Corporation NSW** – Preparation of alliance contract documentation for the outsourcing of design, procurement and installation of up to 40 new turnouts per annum between 2008 and 2013 for RailCorp Commercial Renewals – Trackworks, in 2006 and 2007. The proposed Contract was advertised as a public tender in October 2007 and became known as the Track Services Alliance (TSA).
- **Rail Corporation NSW** – Preparation of feasibility study for plain track grinding and turnout grinding for RailCorp Commercial Renewals – Trackworks for submission to RailCorp Board in 2007.
- **Rail Corporation NSW** – Field Days Manager of the RailCorp / Rail Track Association Australia Industry Field Days at Clyde for RailCorp Commercial Renewals in 2006 and 2007.
- **Transfield Services (TS)** – Preparation and review of their 2002/03, 2003/04, 2004/05, 2005/06, 2006/07, 2007/08, 2008/09 & 2013/14 Asset Management Plans for the Airport Line, as their 'Knowledge Manager'.
- **Toll Rail Limited, NZ** – Provide rail infrastructure assistance for Toll Rail's Track Access Agreement with ONTRACK New Zealand in 2006.
- **Rail Corporation NSW** – Preparation of Technical Specification for New Turnout Grinding Contract for RailCorp Track Renewals in 2006 and 2007.
- **Seimens Limited** – Provide Rail Safety and Below-Rail Expertise assistance to Aurora Rail Partnership PPP for RailCorp's new suburban passenger fleet tender in 2006.
- **Rail Corporation NSW** - Provide Maintenance Planning Support to the Maintenance Manager of the new Epping to Chatswood Rail Line (ECRL), for RailCorp Major Projects Division in 2005 and 2006.
- **MVM Rail Pty Ltd** - Provide Rail Safety Accreditation Assistance as their "Knowledge Consultant" in 2005 and 2006.
- **GrainCorp Operations Limited** - Provide Rail Safety Accreditation Assistance as their "Knowledge Consultant" in 2005 and 2006.
- **Leighton Services Pty Ltd** – Provide Tender Support to the Leighton / QR Joint Venture to provide rail infrastructure maintenance services to ONTRACK New Zealand's Rail Network in 2005.
- **Rail Corporation NSW** - Provide Project Coordination Support for the renewal and / or replacement of RailCorp's Overhead Wiring Maintenance and Construction Train Consist and Road-Rail Catenary Maintenance Vehicles, for RailCorp Electrical Renewals in 2005 to 2007.

- **Rail Corporation NSW** - Prepare Technical Specification for New Plain Track Rail Grinding Contract for RailCorp Track Renewals in 2005 and 2006.
- **Rail Corporation NSW** - Prepare Technical Specification and Contract Documentation for Turnout Renewal by Design & Construction Contract, for RailCorp Track Renewals from 2005 to 2007.
- **Speno Rail Maintenance Australia** – Provide “Knowledge Consultant” services to progress Rail Safety Accreditation Documentation for their NSW operations (from November 2004).
- **Transfield Services (TS)** – Assist with the review of Due Diligence documentation for mergers and takeovers, including Alstom Australia in 2004.
- **United KFPW** – Review of Rail Safety Documentation of a Tender Bid Submission in 2004.
- **Speno Rail Maintenance Australia** – Assist in programming of Rail Flaw Detection Testing on ARTC’s NSW Network in 2004 to 2007.
- **Vossloh Australia** – Assist in the acquisition of Delkor Australia and Delkor Hong Kong to purchase the rights of the *Clouth Cologne Egg* and *Alternative One* Resilient Noise and Vibration Reduction Track Fastening Systems and associated attenuation products in 2003.
- **Rail Infrastructure Corporation (RIC)** – Review RIC’s existing Process Control Plans (PCP’s), Job Safety Analyses (JSA’s), and Inspection and Test Plans (ITP’s) and assist in developing documentation to comply with new Rail Safety Accreditation Track Certification requirements for RIC Projects and Support Division from 2003.
- **Transfield Services (TS)** – Assist in Preparation and Facilitation of various Boundary and Safety Interface Agreements between TS and its associated stakeholders on the Sydney Airport Line from 2003.
- **Australian Rail Track Corporation (ARTC)** – Prepare Transition Plans and associated documentation for ARTC’s proposed take-up of a 60-year Lease of the NSW DIRN and NSW Country Rail Networks in 2004; including:
 - Railway Bridge structures;
 - Staff Balancing of new and seconded employees, between Leased and Residual Networks,
 - Review and Population of Mincom Ellipse Asset Database,
 - Review and rebadging of Engineering Standards as novated from RIC,
 - Preparation of Service Agreements for Ultrasonic Rail Testing and Rail Grinding,
 - Provide Project Coordination of the Concept Design Process on the Southern Sydney Freight Line (SSFL) between Macarthur and Sefton Junction, and
 - Provide Project Documentation and Tender Scoping support for the replacement of the Murrumbidgee River Viaduct at Wagga Wagga.
- **Barclay Mowlem Construction Limited (BMCL)** – Provide Business Development Consulting assistance and Tender support in 2003 and 2004.
- **Works Infrastructure – Downer EDI Limited** – Provide Review of Developments in potential growth in the Australian Railway Industry in 2004.

- **Rail Infrastructure Corporation (RIC)** - Undertake Review of Track Geometry Design Standards and Speed Signs for RIC Metropolitan Operations in 2003.
- **Pacific National Limited (PNL)** – Review of NSW Grain Line Rail Costing Model and proposed Track and Structures Upgrade Proposals in 2003.
- **Coordinator General of Rail (OCGOR)** – Undertake Infrastructure Maintenance Audit Review of portions of RIC's NSW Rail Network, following the Transport NSW 2001 and 2002 Rail Safety Audits in 2003.
- **Pandrol Australia Pty Ltd** – Undertake Life Cycle Analysis Study on the Pandrol FASTCLIP versus Pandrol e-clip assemblies in 2003.
- **Transfield Services (TS)** – Provide Transfield Services with Rail Track and Civil Engineering Infrastructure Support Services on the Airport Line, under a Period Contract – Including WTSA, Kinematic Clearances, Maintenance Programs and Incident Reporting assistance in 2003.
- **Rail Infrastructure Corporation (RIC)** – Scope, Documentation and Contract Management of Sub-Contract Tenders for Major Periodic Maintenance Works in the Sydney Metropolitan Region, for RIC Projects and Support Division from 2003.
- **Transfield Services (TS)** – Inspect and Report on Track Condition and Rail Creep at Airport Line in 2003.
- **CRT Group** – Assist in the development of track stabling facilities for their Cargo Sprinter with Port Botany Freight Terminal in 2003.
- **Australasian Railway Association (ARA)** – Undertake Due Diligence of the AROU's process of developing the National Code Of Practice for the Defined Interstate Rail Network, in anticipation of ARA's acquisition of the Code in 2003.
- **Transport NSW (DOT NSW)** – Prepare Below-Rail Benchmarking Strategy, Condition Assessment, Upgrading Proposals and Cost Estimates for the NSW Restricted Grain Lines in response to the NSW Farmers Federation Green Paper in 2003.
- **Australian Rail Track Corporation (ARTC)** - Prepare Budget Costing and assess Transit Time Benefits for Double Stacking of Containers between Melbourne and Brisbane in 2003.
- **Transfield Services (TS)** – Assist in the Preparation of Budget Estimates for Routine Maintenance of the Airport Line Central Turnback in 2003.
- **Australian Rail Track Corporation (ARTC)** – Assist in the preparation of Asset Management Plans for each of the six Corridors on the NSW Defined Interstate Network in 2003.
- **Transfield Services (TS)** – Assist in the Preparation of 2002 & 2004 Track & Tunnel Asset Management Plans for Airport Line.
- **GHD Pty Ltd** – Review of ARTC Proposal to NSW Government for a 60 Year Lease of the Defined Interstate Network in 2002.
- **Yarra Trams, Melbourne** – Assist in the Due Diligence for acquisition of M>Trams from National Express Group in 2002.
- **Vossloh Schwabe Australia Limited** – Prepare Australian Railway Industry Report in 2002.
- **Transfield Services (TS)** – Review Welded Track Stability Analysis (WTSA) for Airport Line in 2002.

- **Barclay Mowlem Construction Limited (BMCL)** – Trackwork Tender for Spencer Street Station Redevelopment to Leighton Contractors in 2002.
- **Maritime Container Services (MCS)** - Upgrade Proposals at Cooks River Yard for Rail Personnel in 2002.
- **Patchton Investments** - Civil, Drainage & Foundation Certification Review in 2002.
- **Rail Infrastructure Corporation (RIC)** – Project Coordination Responsibilities – Port Botany Line Freight Rail Project – Multi-Discipline Design & Investigation Coordination Management, for RIC Engineering Projects in 2002.
- **Queensland Rail (QR)** – Tender Assistance and Management Plans (incl. Rail Safety, Construction, Maintenance, Asset, Environmental, etc.) for the Baulderstone Hornibrook – Bilfinger Berger Joint Venture's Parramatta Rail Link Systems' Tender in 2002.
- Private Consultancy Reports to Financiers, Investors and Legal Counsels.
- Building Inspections on Residential Units and Homes for Private Landlords.

Experience:

Rail Industry:

- As Director, Secretary and Owner of Engineering Consultancy, Bull Head Services Pty Limited from February 2002 to present.
- As Transfield Services' Industry Development Manager - Rail, between 1997 and 2002, David was a key member of Transfield's successful bid team for infrastructure maintenance contracts with:
 - Tranz Rail New Zealand (NZ\$50m pa);
 - Australia Southern Railroad for South Australian Freight Lines and BHP OneSteel, Whyalla (\$12m pa);
 - Australian Rail Track Corporation (\$25m pa);
 - Yarra Trams' Franchise (\$82m pa) between 1997 and 2002, and
 - The acquisition of Australian National's Infrastructure Services Maintenance Group in 1997.
- Maintenance development and implementation of high profile Build Own Operate & Transfer (BOOT) Projects such as New Southern Railway (The Airport Line) and Brisbane Airport Rail Link (BARL) for Transfield between 1999 and 2001.
- Managed Transfield's Rail Safety Accreditation Applications and Compliance for their rail infrastructure operations in New South Wales, Victoria, South Australia, Western Australia and Queensland.
- Contract resurfacing of cane tramways for the Fiji Sugar Corporation for Fessl Pty Ltd (1997).
- Railway Construction Project Management of Eraring Balloon Loop, near Newcastle for Ulan Coal, on behalf of John Holland Engineering Pty Ltd (1992).
- Various track upgrading projects between 1976 and 1991 including:
 - NSW South Western Grain Lines as Assistant Division Engineer, Cootamundra with PTC of NSW (1976 to 1978),
 - Trackwork Project Engineer for the Gosford to Newcastle Electrification Project with PTC of NSW (1978 to 1980),
 - Project Engineer for the Thevenard Balloon Loop and Penong Sidings upgrading works for Boral Australian Gypsum and Boral Norman J Hurl (1984), and
 - NSW North Coast Line Concrete Resleepering (from Telarah to Dungog) - Project Manager for John Holland Construction Pty Ltd using Valditerra "Pony" Tracklaying Machine for State Rail of NSW (1990 – 1991).
- Acting Division Engineer, Tamworth and Upgrading Engineer, Public Transport Commission at Newcastle (1979 – 1980).

Quarrying & Resources Industries:

- Commissioning Manager for 1000 TPH Blast Furnace Slag Plant at BHP Port Kembla for Australian Steel Mill Services (1990).
- Upgrading of gypsum and salt rail unloading and ship loading facility at Thevenard / Ceduna, South Australia for Boral Australian Gypsum / Gypsum Resources Australia (1984).
- Upgrading & quarry management of a 250 TPH hard rock granite quarry crushing and screening at Kota Bharu, Malaysia for BMI International Division (1982 to 1983).

- Development, procurement and management of a portable 180 TPH sand and gravel crushing and screening plant for BMG (Country) at Muswellbrook in NSW (1981).
- Holder of a NSW Shot Firer's and Above-Ground Mine Manager's Certificate.

Road Industry:

- Slip Form Concrete Paving for the Sydney Gore Hill Freeway for John Holland Construction Pty Ltd (1991).
- Pioneered the development of high strength nil-slump Roller Compacted Concrete Pavements in NSW, Victoria & South Australia for Boral Rollcrete (1988 - 1990).
- Managed cementitious stabilised pavement construction for Boral Stabilex (1984 - 1988).

International Railway Track and Infrastructure Maintenance Technology Experience:

- In July 2001, David undertook a Rail Study Tour of Europe which included visiting the rail grinding operations of the Speno International associate companies in Venice, Italy of Abrasivi Speciali Industriali (ASI) SPA and Mecnafer SPA and the tramway operations of Semitag (a Transdev Company) in Grenoble, France. The study tour included various railway operations in Italy, France, Spain and the Netherlands.
- David was a Delegate and Guest International Forum Panel Speaker at the VDEI 23rd International Exhibition of Track Technology (iaf) in Münster, Germany from 13 May to 15 May 2003. Site visits included the rail maintenance manufacturing equipment facilities of Plasser and Theurer in Linz, Austria. The study tour included various rail operations in Germany, Austria and the Netherlands.
- Attended the Rail Solutions Asia Conference in Taipei from 12 May to 14 May 2004 including site visits to the Taiwan High Speed Rail Project. Attended briefings with Austrade in Taipei.
- Rail study tour to Bangkok in January 2005 including visits to State Railway of Thailand, Bangkok Skytrain (BTS) and Bangkok Metro Underground System.
- Delegate at the 8th International Heavy Haul Conference (IHHC) in Rio De Janeiro, Brazil during June 2005 and for the Post-Conference Technical Tour to the Iron Ore Railroad Port of Companhia Vale do Rio Doce (CVRD) in Vitoria, Espirito Santo, Brazil.
- In January / February 2006, David undertook a rail study tour of South Africa and Zambia which included visits to the Spoornet OREX Heavy Haul Iron Ore Line from Sishen to Saldanha, the Spoornet Bay Heavy Haul Coal Line from Witbank to Richards Bay and also the junction of the Zimbabwe and Zambian Railway Systems above Victoria Falls. In addition, David undertook visits to Spoornet field sites and manufacturing facilities with contractors and suppliers including Plasser Railway Machinery SA (Plasserail), Railway Mechanised Maintenance Company (Ramco), Lennings Rail Services and Pandrol SA.
- David was a Delegate at the VDEI 24th International Exhibition of Track Technology (iaf) in Münster, Germany from 30 May to 1 June 2006. The study tour included various rail operations in Singapore, Italy, Germany, Austria, the Netherlands, France, UK and Bangkok. Site visits included the rail maintenance manufacturing equipment facilities of Plasser and Theurer in Linz, Austria and a site to railway construction works at St Pancras Station, London, as Contract 105 of the Channel Tunnel Crossing Rail Link Project, being undertaken by Costain Bachy O'Rourke Joint Venture, to construct a new rail terminal for the Eurostar trains arriving from France. Mowlem Rail (a Carillion plc Group company) was undertaking the rail works and three types of Pandrol resilient rail fastenings were being installed - FASTCLIP, VIPA and VANGUARD.

- Rail study tour to Hong Kong, Vietnam and Bangkok in January 2008 including visits to MTR Hong Kong including the construction of the new West Rail Project at Kowloon West Station by the Link 200 Joint Venture (Leighton Asia, Balfour Beatty, Kumagai and John Holland), Vietnam National Railways in Hanoi, State Railway of Thailand and Bangkok Skytrain (BTS). Held meeting with Austrade in Hong Kong.
- David was a Delegate at the INNOTRANS 2008 Railway Exhibition, Berlin, Germany between 23 and 26 September 2008. The study tour included various rail operations in Germany, France, Belgium, the Netherlands, Singapore and Malaysia. Site visits included inspection of night-time rail grinding activities between Schiphol and Amsterdam for the NS Railways, being undertaken by a Speno RR16M10 Rail Grinder.
- David was a Delegate at the 9th International Heavy Haul Conference (IHHC) in Shanghai, China during June 2009; including travelling on the 430kmph Shanghai Transrapid Maglev Train from Shanghai International Airport.
- Rail study tour to Hong Kong, Kuala Lumpur and Singapore in December 2009 / January 2010 including visits to MTR Hong Kong, KTM Malaysia and SMRT Singapore. Held meeting with Austrade in Kuala Lumpur.
- In July 2010 / August 2010, David undertook a rail study tour to Europe, visiting Denmark, Finland, Sweden, Switzerland, Paris, London and Singapore. Visits included DSB Rail in Denmark, VR Rail, DESEC OY and Kopar OY in Finland, SL Rail, SJ Rail and Rosenqvist Rail AB in Sweden, SBB CFF FFS Rail, the Alpine rack railways, Matisa Material Industriel SA and Speno International in Switzerland, SCNF in France, Eurostar, London Underground, South West Trains, Swietelsky UK, Lloyd's Rail, Network Rail and National Express in London and SMRT in Singapore.
- From 13 to 15 September 2010, David was a Delegate at CORE 2010 Conference of Railway Engineering in Wellington, New Zealand and participated in KiwiRail's Post Conference Technical Tour of the North Island Main Line Trunk Railway.
- David was a Delegate at the 10th International Heavy Haul Technical Conference (IHHC) in Calgary, Canada during June 2011; visiting JR in Narita Japan, Union Pacific and Santa Fe Railroads in Los Angeles (including the International Container Transportation Facility, Dolores Diesel Facility, Pacific Harbour Lines and the LA Transportation Centre), Bay Area Rapid Transit (BART) in San Francisco and the Rocky Mountaineer (Vancouver to Calgary) and Canadian Pacific (including Canadian Pacific Network Control Centre, Shepard Intermodal Facility and Alyth Yard, Calgary) in Canada.
- David was a Delegate at the INNOTRANS 2012 Railway Exhibition, Berlin, Germany between 18 and 21 September 2012 and an Exhibitor on the 'Australia Unlimited Stand'. The study tour included various rail operations in Japan, Germany, France, and the Czech Republic and a visit to the Bombardier rollingstock manufacturing factory in Berlin, with the Australian Rail Mission to Innotrans 2012.
- David was a Delegate at the 11th International Heavy Haul Technical Conference (IHHC) in New Delhi, India during February 2013.
- David was a Delegate at the INNOTRANS 2014 Railway Exhibition, Berlin, Germany between 23 and 26 September 2014 and a Co-Exhibitor on the 'Australian Rail Industry Stand'. The study tour included various rail operations in Holland, Belgium, France, Germany and Hong Kong.
- David undertook a rail study tour to Europe between August 2016 and October 2016, in conjunction with the INNOTRANS 2016 Railway Exhibition, Berlin, Germany between 20 and 23 September 2016. The study tour included various rail operations in Holland, Portugal, Spain and Italy (including a factory visit to Speno International associate companies, ASI Spa and Mecnafer Spa, in Venice).

- David undertook a rail study tour to Europe between July 2017 and September 2017, which included various rail operations in Hungary, Slovakia, Austria, Germany, Holland and Spain.

Professional Awards and Memberships:

- Bachelor of Engineering (BE Civil) obtained from UNSW between 1971 and 1975.
- Institution of Engineers, Australia - MIEAust since 1980.
- Chartered & Registered Professional Engineer No: 88057 - CPEng NER APEC Engineer IntPE(Aus).
- The Australasian Railway Association (ARA) – Executive Committee Board Member in 2000, 2001 and 2002.
- Member of Civil Infrastructure Advisory Group (CIAG) for Industry Codes of Practice for Defined Mainline Interstate Network for AROU.
- Rail Track Association Australia (RTAA) – Vice President from 2000 to 2016.
- Rail Track Association Australia – Management Committee from 1996 to 2018.
- Rail Track Association Australia - Secretary & Treasurer from 2002 to 2005.
- Rail Track Association Australia - Secretary & Business Manager from 2007 to 2016.
- Rail Track Association Australia – RailCorp Industry Field Day Committees for 2006, 2007, 2010, 2011, 2013, 2015 and 2017; including Field Days Manager in 2006, 2007, and 2015.
- Rail Track Association Australia – Champion of Young Rail Industry Specialist Achievement Award (Frank Franklyn Award) from 2008 to 2016, and ongoing support as a Life Member.
- Rail Track Association Australia - **Awarded Life Membership in 2011.**
- Permanent Way Institution, NSW Section - Fellow, (Membership Secretary 1995 to 2007, Private Industry Judge for the Platelaying Award from 1995 to 2002 and PWI Committee 1995 to 2008). Provide ongoing support, as a Life Member, for the PWI NSW Young Achiever's Award.
- Permanent Way Institution, NSW Section - **Awarded Life Membership in 2005.**
- Permanent Way Institution, Queensland and South Australian Sections Member since 2002 to 2018.
- Railway Technical Society of Australia (RTSA) – Member and previous NSW Committee Member (PWI and RTAA Representative).
- AusRAIL Conference Organising and Technical Review Committee Member (2003 to 2016) and Session Chairman (2003 to 2015), as well as the Technical Papers Champion for the RTAA Stream of Papers at AusRAIL from 2003 to 2016.
- The Australasian Railway Association (ARA) Rail Industry Group (RIG) Member (from 2013 to 2017).
- Institute of Quarrying – MIQ since 1980 – **Thirty (30) Year Membership awarded in August 2011.**
- The Australasian Railway Association (ARA) Rail Skills and Career Council Member - 2005.
- ACPave Committee - Australasian Concrete Pavement Association.
- David Bull became an **Associate of Interfleet Technology in November 2010.**
- Bull Head Services Pty Limited was **admitted as a Member of the Dawn Alliance on 30 November 2012.**

Bull Head Services looks forward to working with and supporting our clients to achieve their milestones and deliverables.

Yours sincerely

David Bull
Director and Company Secretary