
Peter de Bruin—

Director, Western Region



Experience Overview—

Peter has 28 years' experience as a consulting engineer, specialising in the design and project management of reinforced concrete, structural steel structures and civil works. He has been involved in projects ranging from industrial to commercial to development for Government and private institutions. Peter has been involved in a very wide range of building projects including industrial, commercial and residential buildings, university and school campus buildings and undertaken project management on a wide range of projects for a number of clients and was responsible for the evaluation of contractors' payment claims, financial control and administration of the Contract.

Structural Engineering

Peter has been involved in a very wide range of building projects including high-rise, industrial, commercial, and residential buildings, university and school campus buildings.

- Roy Hill Project
- Jumeriah Beach Residence
- Kleenheat Gas
- Burj, The Residences Phase 1, 2 & 3
- Marina District 7W7X
- Al Jaber Tower Media City
- Vision Tower, Business Bay
- Plot 21, Shams
- Automall, Autodrome Development
- The Index Building,

Project Management / Coordination

Has undertaken project management on a wide range of projects for a number of clients and was responsible for the evaluation of contractors' payment claims, financial control and administration of the contract.

- Vopak Plant
- Nampak Packaging Plant
- Total Oil Blend Plant
- Zenex Oil Site drainage

Position—

Director Western Region, BG&E Pty Limited

Qualifications—

- BE
Bachelor of Civil Engineering
- ME
Master of Structural Engineering
- MIEAust
Member Institution of Engineers Australia
- CPEng
Registered Professional Engineer (No. 2255365)
- NPER
Structural College of The National Professional Engineers Register

Career Milestones—

- 2015 Director Eastern Region
- 2011 / Appointed Director of BG&E
- 2005 / Appointed Associate Director of BG&E
- 1/04/2002:to 1/08/2013: BG&E Pty Ltd
- 3/01/1991 to 1/03/2002: Kantey and Templer
- 1/02/1989 to 2/01/ 1991: Africon Consulting
- 8/12/1989 / M Eng (Structures) Degree
- 4/12/1987 / B Eng (Civil) Degree

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Detailed Project Experience—

Structural Engineering

Since joining BG&E in 2002 Peter has been responsible for:

- Reinforced concrete design;
- Structural steel design;
- Project management;
- Business operations and management; and
- Global operations.

Roy Hill Mine

- Project Directors for civil works and non-process infrastructure of the preliminary design for the Roy Hill Mine

Jumeirah Beach Residence (Schematic Design Phase)

- Master planning and Schematic Design for TELCOM for this 2,000,000m² developments at Jumeirah Beach. The project comprises 36 apartment towers up to 48 floors and parking for approximately 10,000 cars. Initial commission extended to include the detailed design of 4 of the first batch of towers to be constructed. Project Value \$1 Billion.

Jumeirah Beach Residence (DD +CD 4 Towers and Podiums)

- The project known as Jumeirah Beach Residence comprises 35 residential Tower Buildings and 4 Hotels on a site of approximately 230,000 m². These structures rise above a 4/5 level podium covering the majority of the site. The Tower Buildings and Hotels typically range from 10 to 46 levels above the upper Podium level.

Burj Development – The Residences Phase 1

- The Residences is the first stage of a major development by EMAAR on land previously occupies by the Department of Defence, UAE.
- Phase 1 comprises of five Residential Towers and one Serviced Apartment building between 25 and 40 storeys and complimentary Podium structures. The project was delivered under a design and build contract.

Structural Features:

- The Tower structures are outrigger stiffened cores that are jump formed ahead of the post-tensioned concrete floors.
- The Podiums make extensive use of prestressed precast flooring that are composite with prestressed band beams.
- Precast concrete façade panels and curtain walls.
- Foundations consist of raft supported on bored reinforced concrete piles.

Burj Development – The Residences Phase 2

- Burj Phase 2 comprises of 3 towers varying from 30 to 50 levels with interconnecting podium.
- The façade includes predominately glazed curtain walls.

Structural Features:

- Main core, sway-frame and outriggers utilized to stabilise building.
- Prestressed concrete floors.

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Al Jaber Tower (Media City)

- Al Jaber comprises of a 44 level hotel and office tower. The upper 22 levels are office floor with a 12 level hotel and carpark under. The building includes 2 levels of basement carpark in a sandy water charged site.
- The façade includes predominately glazed curtain walls.

Structural Features:

- Main core and sway-frame utilized to stabilise building. Elimination of outriggers.
- Prestressed concrete floors.
- Reinforced bored piled raft foundations

South Ridge Development (6 Towers and Podium)

- Design and documentation of 6 residential towers (30-50 levels) with a five level podium connecting the towers.

Structural Features:

- Main core, sway-frame and outriggers utilized to stabilise building.
- Prestressed concrete floors.
- Precast beams and slabs.
- Reinforced bored piled raft foundations.
- The Tower structures are outrigger stiffened cores that are jump formed ahead of the post-tensioned concrete floors.
- The Podiums make extensive use of prestressed precast flooring that are composite with prestressed band beams.
- Precast concrete façade panels and curtain walls.
- Foundations consist of raft supported on bored reinforced concrete piles

Marina District 7WX (6 Towers + Podium)

- 7WX project comprises of a 6 residential towers varying from 30 to 50 levels with 7 level podium interconnecting all the towers.
- The façade includes glazed curtain walls and precast concrete panels.

Structural Features:

- Main core, sway-frame and outriggers utilized to stabilise building.
- Prestressed concrete floors.
- Precast beams and slab floors.
- Reinforced bored piled raft foundations, adjacent to high water table.

Vision Tower (Business Bay)

- Vision comprises of a 65 level office tower with 3 levels of carpark under. The building includes adjacent 14 level carpark.
- The façade includes predominately glazed curtain walls.

Structural Features:

- Main core, sway-frame and outriggers utilized to stabilise building.
- Prestressed concrete floors
- Reinforced bored piled raft foundations

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Index Tower (DIFC)

- The Index Building comprises of a 85 level structure comprising of 5 levels of underground basement, 30 levels of office floors and 50 levels of residential floors.
- The façade includes predominately glazed curtain walls.

Structural Features:

- Main core, sway-frame and outriggers utilized to stabilise building.
- Prestressed concrete floors.
- Reinforced bored piled raft foundations.

SAFAIR Hanger

- Design and documentation of hanger to house a Boeing 707. Reinforced concrete foundations and structural steel portal frame. \$ 8.2 Million construction value.

Sanlam Centre

- Fourteen storey reinforced concrete office block and shopping centre within the podium structure. \$ 65 Million project.
- Teachers Training College
- Double storey buildings to a new teachers training college. Structural work comprised of reinforced concrete frames and structural steel trusses. Buildings were founded in either collapsible soils or clay. Design of raft foundations, vertical elements and suspended slabs.

Shell and BP Refinery Operations Management Centre

- Reinforced concrete structure design to withstand the forces generated by a possible unconfined vapour gas emission explosion. Single storey building (approx. 1000 sq. meters in plan) consisting of heavily reinforced, structural members (raft on piles, columns, concrete external wall and flat roof slab). Live loads of up to 70 kPa. Dynamic analysis and design of all structural members. Associated roads, sewer, and domestic and stormwater reticulation.

Shell and BP Refinery Offices Island View

- Comprising a two storey building constructed from a reinforced concrete frame. Structural members consisted of pad footings, columns, flat slabs and eaves beams and trusses. External civil works to create roads and parking areas and services to office blocks.

Shell and BP Refinery Control Room

- Reinforced concrete “box shaped” structure in a Oil Refinery designed to resist blast loads of up to 100 KPa. Massive, heavily reinforced structural members (raft foundations, blast-proof walls and roof slab). Designed to meet the requirements of the client’s in-house specifications.

P.D. Storage Terminals Island View

- Civil and structural services associated with tank farm installations for chemical storage facilities. Include tank foundations, bund walls, pipe supports and bridges, structural steel loading gantries and general civil services.