



Sid Brady F.I.M.M.M.

Profile

A competent and very experienced Mechanical Engineer, encompassing 50 years operational experience in the mining industry.

I am a resourceful professional engineer, an essential member of a successful and accomplished project management team, working in close collaboration with my peers to meet the objectives of the company.

Member of HMI Engineering Liaison Committee

Member of HMI Safe Manriding in Mines Committee

Chairman of Vehicle Fires Working Group. MISLG (HMI)

Member of the Transforming Tunnelling Safety Steering Group

ISO Standards Shafts and Equipment Committees.

Career

November 24 to Present

Consultant to BCCSL

Self-employed working in a multi-disciplinary team developing Detailed Project Report for new underground coal mine project in central India.

In particular the overview of the shafts and winder systems to be employed with detailed recommendations to comply with legislation, best practices and practical solutions.

June 2022 to March 24

Consultant to Anglo American

Review and recommendation of single TBM drive for MTS.

Liaison with the UK Inspectorate e.g. Strain Aging of Ropes preparing documentation for reduction in FoS of the SBR ropes.

Assisting with the Major Intervention, Shafts and Winders by the UK Inspectorate.

Providing regulatory and technical support, and analysis on all aspects of shaft operating systems including review of all Worley Documentation.

Preparing Functional Specifications.

Review of Pumping System for the Project.

Part of the team driving the strategy for shaft and mine fit out currently adopted.

Operational maintenance requirements.

Support, critique, advice on shaft system designs.

Detail design meetings on Conveyors, MTS, Shafts and Winders, Shaft fit out, conveyances, pumping, etc. etc.

Historical background to designs and Project Decisions.

Involved in Hazops, Risk assessments etc. relating to all the above.

Provide extension operational and regulatory experience and knowledge in all aspects of deep mining used to advise, direct and inform all project team members.

Feb 2013 to 2020

MECHANICAL ENGINEER (Project Team and Ops)
York Potash Ltd
7 -10 Manor Garth
Scarborough

Key member of the Project Team for the Planned New Polyhalite Mine near Whitby.

My knowledge and experience has been employed to improve the original concept –for the mine and to ensure that the Engineering Design proposed encompasses the latest developments, “Best Practice”, in deep mining without exceeding the current bounds of known technology and practicality.

Responsibilities as part of the Project Team.

Assisting in the successful planning application to the North York Moors National Park.

Initial Proposal and Feasibility of the MTS tunnel development instead of overland Slurry Line

Total involvement in all key aspects of the mine design,

- Mine Underground Layout.
- Underground Machinery
- Deep Mine Shafts.
- Shaft Lining Design.
- Mine shaft systems, headgears, winders, in shaft equipment.
- Surface Layout, Headgears, Main Fans, Surface Drift.
- Mineral Transport System (Tunnel Mine to Port)
- 36km Conveyor system in the tunnel
- Tunnel space-proofing, for construction and operational requirements.
- Power requirements for construction and operations.
- Other aspects of the project too numerous to list.

Preparation and review of the Major Contractors Tenders for the MTS and Deep Shafts.

Assisting in the Definitive Feasibility Study for the Project

All this work has involved the personal instruction, overseeing and liaison of specialist Mining and Tunnelling Consultants and Contractors in the UK, South Africa, Germany, Canada, China, USA etc. to ensure that Design meets the requirements of The Project.

October 2004 to Feb 2013

CHIEF ENGINEER
Cleveland Potash Limited
Boulby Mine
Whitby
(Israel Chemicals Ltd)

Responsibilities

Managing a large and complex Deep Mine Engineering Department.

.

The Safety, Health and Welfare of all personnel.

Ensure compliance with Health and Safety legislation.
Drive forward new projects and facilitate the introduction of new equipment and technology.
Plan manage and oversee major engineering capital projects
Carry out feasibility studies for major projects.
Prepare and assess tenders and contracts for major projects and see these projects to successful completion.
Business Risk Management.
Overall budget responsibilities for the Engineering Operations and Capital Investment

Facilitated the accreditation of ISO 18001 - Occupational Health and Safety Management Systems

Direct Responsibility for the following Major Projects.

Repair of Shaft Lining (£3M+)
Replacement of Shaft Headgear Tower (£15.5M)
Introduction of fleet of new mining machines including continuous miners, shuttle cars, drill rigs, feeder breakers etc.
Specifications for Polyhalite Equipment.
Fan House refurbishment
Mine end offices, workshops, surface layout.
Replacement of "In Shaft" Furnishings..

Feasibility Studies

Potential surface drift to Polyhalite Workings
Upgrading of hoisting capacity
New Surface Fans
Salt Drivages

July 2002 to Sept 2004

**PROJECT MANAGER
Iberpotash Mine
Suría
Barcelona
Spain**

I was seconded to Spain by my parent company, Israel Chemicals Limited, as the Project Manager for a 22.3 million euro "turnkey" project.

The project was for the repair and refurbishment of the mine shafts, the installation of a new headgear, winder, skip plant and "in shaft" equipment at Cabanasas Potash Mine

The project included all the mechanical, electrical, civil and mining engineering work for the hoisting system, surface and underground.

As the Project Manager my responsibilities encompassed all aspects of the project :-

The budget control.

The co-ordination between the mine management and the contractors.

The "In House" work required in the mine and on surface.

The integration of the systems into the mine maintenance schemes, including the training of personnel.

The Project was completed on target and within Budget costs.

In addition to the Project I was involved in consultancy work at Iberpotash including the preparation of a feasibility study for an overland conveyor.

I also learned to speak and write Spanish during the course of the secondment.

November 1997 to July 2002 MECHANICAL ENGINEER CENTRAL SERVICES
Cleveland Potash Limited
Boulby Mine
Whitby
(Israel Chemicals Ltd)

My responsibilities were for the “core” Mechanical Functions at the mine, together with statutory obligations in Law. Reporting directly to the Mine Manager.

These include the Mine Shafts, Winding Engines, Mine Ventilation Fans, Mineral Clearance, (Conveyors, Bunkers, Skip Plant), Mine Water Pumping, and Long Hole Drilling.

Financial management of the following:-

- Working Cost budget £1m+ / annum
- Working Cost Suspense budget £500,000+ / annum

Capital Projects

- Shaft Pump Column £650,000
- Guide Rope Installation £250,000
- Shaft Conveyances £90,000
- Centrifugal Pumps £350,000
- Vibro Feeders £120,000

In addition to this I was “The Engineer to Contract” for the Rockshaft Major Lining Repair.

Phase 1 of the repair was successfully completed in January 2001, £100,000 under the budgeted cost of £1.4m.

Phase 2 was completed in 2002, again within the £1.2m budget.

Achievements:-

Manshaft

- Extension to life of the winding ropes
- New cage to facilitate slinging
- Installation of guide ropes and all associated equipment
- Major lining repair

Rockshaft

- Design, specification and installation of 12" shaft pump column
- Replacement of headgear pulley wheels
- Skip replacement
- Major lining repair
- Reduced time to change winding ropes from 30 hours to 16 hours

Pumping

- Managed the pumping during the major flooding in the south of the mine
- Installation of mine dewatering centrifugal pumps

Underground General

- Re-organised the diesel fleet maintenance schedule
- Upgraded the mine north conveyor system
- Installation of underground compressors

March 83 to October 97 **MECHANICAL ENGINEER**

R J Budge (UK) Ltd.
Riccall / Whitemoor Combined Mine

Responsibilities were to provide the Mechanical Engineering support to enable the mine to function safely, productively and profitably.

To work to an overall well structured plan alongside my management colleagues.

Install, test, repair, maintain and commission equipment.

To organise, prioritise and effect detailed plans including Method Statements and Risk Assessments.

Design specialised equipment where necessary.

Prepare detailed specifications for tender.

Analytical Trouble Shooting and Problem Solving Techniques.

Coordinate a Planned Maintenance Scheme including R.C.M. Techniques.

Prepare and manage the Engineering budget of £1m+ / annum.

Facilitate the development and promotion of personnel where appropriate.

Formulate and direct the management of contractors at the mine,

Experience/Achievements

Riccall and Whitemoor Mines were part of the Selby Coalfield complex, a multi million pound development during the 1980's.

I was involved with the mines creation from a "Greenfield Site" through to full production and for several years thereafter.

I was substantially involved in numerous major and minor engineering installations during this time.

In Particular

- Shaft Sinking
- Shaft equipment, including, multi rope friction tower winders, drum winders, headgears, shaft furnishings, winding ropes, guide ropes, rubbing ropes, mineral handling equipment etc.
- Main Ventilation Fans
- Surface workshops
- Methane Drainage plant

Underground

- Main spine road development
- Trunk Conveyors including 2 x 2000kw steel cord conveyors
- Staple and roadway bunkers
- Long wall face production equipment
- Heading equipment, continuous miners, roadheaders, shuttle cars.

Career (contd.)

1978 to 1983	Deputy Mechanical Engineer Newmarket Silkstone Colliery
1977 to 1978	Technical Assistant Newmarket Silkstone Colliery
1976 to 1977	Mechanical Engineering Trainee British coal
1972 to 1976	Mechanical Student Apprentice British Coal

Education and Qualifications

Fellow of the Institute of Materials, Minerals and Mining

Incorporated Engineer

HND Mechanical Engineering

Mining Qualifications Board - Mechanical Engineers Certificate

NEBOSH General Certificate

Proficiency Certificate – P405 management of Asbestos in Buildings
OHSAS 18001 Internal Auditor
Computer Literate, including SAP systems.

PERSONAL DETAILS

Full name Joseph Sidney Brady

Wife Gillian

Health Good

Interests D.I.Y. Gardening, Reading, Music, Charity Work.