

INTEGRATED SGS SERVICES FOR PRODUCTION

AN OVERVIEW OF OVERALL SGS SERVICES FOR THE PRODUCTION SECTOR

SGS provides proven technical solutions during the production stage of your project, regardless of the location. Our global network of offices and laboratories ensures that you have the expertise you need, right where you need it. We offer industry-leading services including:

COMMISSIONING SUPPORT

- Metallurgical start-up training
- On-site project expertise
- Optimization and definition of KPIs for plant operation
- Site visits and progress reporting
- Construction monitoring
- Review of construction and commercial agreements
- Completion and progress reports

OPERATIONAL SUPPORT

- Integrated on-site laboratory facilities to support grade control, plant operation and environmental programs
- Grade control and mine planning
- Records management and verification
- Management and operational reviews
- Materials handling
- Supplier audits
- Asset management



IN-PLANT SERVICES (MILL)

- Metallurgical commissioning
- Audits and optimization programs
- Plant debottlenecking and trouble shooting
- Beneficiation
- Column and contact cell flotation, froth cameras
- Process control and advanced systems
- Metal accounting and monthly metal balances
- Slurry rheological assessments
- Plant design and efficiency review
- Corrosion and metal fatigue assessments
- Non-destructive testing and analysis



POWER MONITORING SERVICES

- Benchmark testing of all newly installed equipment
- Commissioning of all distribution equipment
- Grinding circuit audits
- Thermographic services
- Preventative maintenance of all power distribution plant
- BS EN 16001:2009 Energy Management audits



LABORATORY AND SAMPLING SERVICES

- On-site metallurgical and analytical laboratories
- Proficiency testing programs
- Lot sub-sampling
- Manual and auger sampling
- Mechanical sampling systems
- Settlement and umpire services

ENVIRONMENTAL SERVICES

- Environmental baseline studies, monitoring and auditing
- Air, water and soil hazard analysis
- Water and effluent testing, treatment and management
- Industrial hygiene, silica, dust, air quality and noise analysis
- Water and effluent treatment programs
- Cyanide recycling and destruction
- Environmental mineralogy
- Acid rock drainage prediction and mitigation
- Acid sulphate solids and contaminated site rehabilitation
- Land reclamation and mine closure planning
- Greenhouse gas emission verification

GEOTECHNICAL SERVICES

- Site classifications (shallow footings) to AS 2870
- Geotechnical exploratory investigation to AS 1726
- Design/consultancy work for foundation structures and retaining wall structures
- Geotechnical failures analysis work
- Geotechnical instrumentation and monitoring programs



SAFETY SUPPORT SERVICES

- High pressure equipment verification and licensing
- Established safety management software
- Access control equipment (cards and kiosks)
- Development of training courses, interactive presentations and e-training tools

TRADE AND INSPECTION

- Toll milling support, smelter support and industrial product recycling
- Quality inspection
 - Visual inspection
 - Loading supervision
 - Moisture inspection
 - Damage analysis
- E-Reporting
- Quantity assessment
 - Tally grading
 - Weight verification and draft survey
 - Stockpile inventory management

PAVEMENT SERVICES

- Design work for pavement layers/thickness for infrastructure
- Assessment and rehabilitation to determine the causes of pavement structures failures

AUDITING AND CERTIFICATION



- BS 25999: Business Continuity Management
- BS EN 16001:2009 Energy Management
- GRI - Global Reporting Initiative and AA 1000 Assurance Standards
- ISO 9001:2008 Quality Management Systems
- ISO 1400:2004 Environmental Management Systems
- ISO 14064: Greenhouse Gas Accounting And Verification
- OHSAS 18001 Occupational Health & Safety Management Systems
- SA 8000 Social Accountability
- SQA – Supplier qualification audits

