

SUNSHINE SILVER MINING & REFINING COMPANY

TECHNICAL, SAFETY AND SUSTAINABILITY COMMITTEE CHARTER

I. Statement of Purpose

The Technical, Safety and Sustainability Committee (the “Committee”) is a standing committee of the Board of Directors (the “Board of Directors”) of Sunshine Silver Mining & Refining Company (the “Company”). The purpose of the Committee is to assist the Board of Directors in discharging its responsibilities relating to (i) technical matters relating to the Company’s operations, exploration, and projects; (ii) mineral reserve and mineral resource estimation and reporting and technical report publication; and (iii) environmental, health and safety, security, and sustainability.

II. Organization

A. *Charter.* At least annually, this charter shall be reviewed and reassessed by the Committee and any proposed changes shall be submitted to the Board of Directors for approval.

B. *Members.* The members of the Committee shall be appointed by the Board of Directors and the Board of Directors may remove a member of the Committee at any time. At least a majority of the Committee shall meet the independence requirements of applicable law and the applicable listing standards of all stock exchanges on which the Company is listed and the applicable policies of the Board of Directors. The Committee shall be comprised of at least three members. The Board of Directors shall designate a Committee Chair.

C. *Meetings.* In order to discharge its responsibilities, the Committee shall each year establish a schedule of meetings. Additional meetings may be scheduled as required. The Secretary of the Company, or such individual as may be appointed by the Committee (“Committee Secretary”), shall act as secretary for Committee meetings and, upon receiving a request from any member of the Committee to schedule a meeting, shall arrange for such meeting to be held.

Unless otherwise provided herein, proceedings of the Committee shall be conducted in accordance with the rules and procedures applicable to meetings of the Board of Directors.

D. *Quorum; Action by Committee.* A quorum at any Committee meeting shall be at least two members. All determinations of the Committee shall be made by a majority of its members present at a meeting duly called or held, except as specifically provided herein (or where only two members are present, by unanimous vote). Any decision or determination of the Committee reduced to writing and signed by all of the members of the Committee shall be fully as effective as if it had been made at a meeting duly called and held.

E. *Agenda, Minutes and Reports.* The Chair of the Committee, in consultation with management and the other members of the Committee, shall set meeting agendas. The Committee Secretary shall ensure that the agenda and any supporting material are circulated in advance of each Committee meeting. Minutes for all meetings of the Committee shall be

prepared to document the Committee's discharge of its responsibilities. The minutes shall be circulated in draft form to all Committee members to ensure an accurate final record and shall be approved at a subsequent meeting of the Committee. The Committee shall make regular reports to the Board of Directors.

III. Principal Responsibilities and Authority

In furtherance of the Board of Directors' oversight responsibilities and authorities, the following shall be the principal responsibilities and authority of the Committee, which may be supplemented by other duties or responsibilities expressly delegated to the Committee by the Board of Directors:

Technical Matters.

- i. Review, monitor and oversee technical matters relating to exploration, permitting, refurbishment, development and operation of the Company's mineral properties and facilities, including any related program objectives, budgets and overall performance, in order to ensure alignment with the Company's strategic objectives and initiatives;
- ii. Review, monitor and oversee management of the Company's major capital projects, major commercial arrangements, and expenditures which have or may have a material impact on the Company;
- iii. In connection with (i) and (ii) above, receive such reports as the Committee shall from time to time determine, including regarding the status of any particular major project or expenditure in terms of organization, personnel, schedule for completion and actual expenditures against budget; and
- iv. In the Committee's discretion, make recommendations to the Board of Directors for consideration in relation to the foregoing.

Reserves, Resources and Technical Reporting.

- i. Review the selection criteria and the appointment of the Company's designated qualified person(s), both independent and internal (as such term is defined by applicable securities laws, "qualified person(s)") for estimating the Company's mineral reserves and mineral resources and for disclosure of scientific and technical information, in accordance with applicable securities laws and regulations;
- ii. Discuss relevant matters with the qualified person(s) without the presence of management as the Committee determines appropriate;
- iii. Review all mineral resource and mineral reserve estimates for the Company's mineral properties, management's procedures for the disclosure of mineral resource and mineral reserve information and the compliance of such disclosure with regulatory and listing requirements; and

- iv. review and approve all technical reports prior to publication, in accordance with subsection 1300 of regulation S-K.

Environmental, Health and Safety, Security and Sustainability.

- i. Review with management the Company's goals, policies and programs relative to environmental management, health, safety, operational security, sustainable development, social performance and external relations. This includes: (i) the Company's policies with respect to risk identification, assessment, and management in these areas; (ii) the Company's major risk exposures in these areas; (iii) the steps management has taken to monitor and mitigate such exposures; and (iv) the effect of relevant regulatory initiatives and trends;
- ii. Review with management the Company's record of performance on environmental management, health, safety, operational security, social performance and external relations matters, along with any proposed recommendations or actions based on the record of performance and promptly review accidents and material events as related to the subjects mentioned;
- iii. Review with management the employee, contractor and visitor safety programs to ensure continued focus on safety fundamentals and awareness both on- and off-site;
- iv. Monitor and make recommendations to the Board concerning the effectiveness of policies, program governance, systems and technology necessary to ensure the Company's material compliance with applicable laws, rules, regulations and standards of corporate conduct relating to environmental management, health, and safety;
- v. Apprise the Board regularly, and other Board committees as applicable, of significant developments in the course of performing the above duties, including reviewing with the full Board any material issues that arise with respect to the Company's compliance with legal or regulatory requirements and performance against external commitments;
- vi. Review with management certain audit plans and any significant findings and management's response thereto related to a healthy and safe work environment, environmentally sound and socially responsible mining and resource development, and human rights, as the Board and the Audit Committee determine appropriate;
- vii. Prepare reports or assessments from time to time, at the Committee's discretion, regarding the Committee's activities as they relate to the Company, and review public reporting relating to the Company's safety and sustainability performance, including by providing oversight of the Company's public sustainability performance report and assurance process;
- viii. Review, monitor and report to the Board of Directors on the findings of any significant examination or audit by regulatory agencies concerning sustainability matters;

- ix. Review the Company's corporate-level crisis management plan and other plans relating to emergency and disaster response and review and monitor any critical incidents involving a fatality or a life-threatening injury to a person or any material incidents involving public safety, material property damage, reportable environmental damage or physical security;
- x. No less than annually review management's assessment of the impact of proposed or enacted laws, regulations, international treaties and voluntary codes and initiatives related to safety, health, workforce development, and the environment;
- xi. Review and monitor the Company's strategies regarding Indigenous relations, workforce development, and community relations;
- xii. Ensure adequate and effective tailings management systems are in place and utilized and compliance is monitored, (including through external verification on such periodic basis as the Committee considers to be appropriate); and
- xiii. Offer advice and/or recommendations to the Board of Directors in connection herewith.

IV. General Responsibilities and Authority

A. Access to Records, Consultants and Others; Funding. The Committee shall have the authority and responsibility to engage and terminate any outside consultant, counsel and other adviser to assist in connection with the responsibilities above and to approve the terms of any such engagement and the fees of any such adviser. In discharging its responsibilities, the Committee shall have full access to any relevant records of the Company. The Committee may also request that any officer or other employee of the Company, the Company's outside counsel or any other person meet with any members of, or consultants to, the Committee. The Company shall provide funding to the Committee sufficient to pay engagement fees of the consultants, counsel and other advisers retained by the Committee, as well as necessary or appropriate administrative expenses of the Committee incurred in discharging its responsibilities.

B. Delegation. The Committee may delegate any of its responsibilities to a subcommittee comprised of one or more members of the Committee.

C. Committee Performance Evaluation. The Committee shall evaluate its performance annually and develop criteria for such evaluation.

D. Other Delegated Responsibilities. The Committee shall also carry out such other duties that may be delegated to it by the Board of Directors from time to time.

Approved by the Board of Directors on May 10, 2026.

Effective as of June 3, 2026.