### **Standard Operating Procedure (SOP) for Equipment Safety and Inspection**

#### **Purpose:**

This SOP ensures compliance with national safety, inspection, and operational standards for regulated equipment.

#### **Scope:**

Applies to all personnel operating and maintaining regulated equipment under ASTM, CFR, IEEE, API, ANSI, NFPA, SASO, and other governing regulations.

### **Procedure**

#### **1. Pre-Operation Inspection**

* Verify equipment logbooks are updated with the last maintenance record.
* Ensure all safety guards and emergency shutoffs are functional.
* Check for visible wear, damage, or signs of material fatigue.
* Inspect environmental conditions to ensure operational safety.

#### **2. Operational Guidelines**

* Operators must be trained and certified under OSHA (29 CFR 1910.119) and follow manufacturer safety guidelines.
* Only authorized personnel may operate, inspect, or maintain equipment.
* Equipment should not exceed its designated load, speed, or operational limits.
* Proper PPE (Personal Protective Equipment) must be worn at all times.

#### **3. Emergency Procedures**

* In case of a failure, shut down the equipment immediately and notify the supervisor.
* Report any hazardous incidents in compliance with 40 CFR Part 63 and applicable safety guidelines.
* Maintain an accessible emergency evacuation plan.

#### **4. Maintenance & Recordkeeping**

* Equipment must undergo scheduled maintenance as per API 510 and NFPA 86 standards.
* Logs of all maintenance, repairs, and inspections must be maintained and made available upon request.
* Calibration and testing should be documented in accordance with SASO IEC 60051-1.