

**PROCESS SAFEGUARDING FLOW
SCHEME**

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1. SCOPE

This standard practice covers the requirements and contents to be entered their entry forms in relation to the preparation for Process Safeguarding Flow Scheme (PSFS) for basic design of processing plant.

2. OBJECTIVE

This PSFS covers all the matters relating to the safeguarding design for the process involved. It will be serviceable to the reconfirmation of fully ensuring the safety against the extreme conditions exceeding the design temperature and pressure. The safety design with respect to layout will separately be confirmed based on the " Hazardous Area Classification " drawings.

3. CONTENTS

All safeguarding systems for the process concerned are highlighted as follows to comply with the objectives mentioned in the above 2 :

- (1) All alarms and warning devices
- (2) All safety /relief valves and rupture discs with outlet tie-in connective.
- (3) All control valves with by-pass and spring action
- (4) All check and back flow protection valves
- (5) Depressuring valves with outlet tie-in
- (6) Blowdown valves with outlet tie-in connections
- (7) All remotely operated valves
- (8) All startup by-pass lines
- (9) Temperature emergency protecting equipment

4. ENTRY FORM

- (1) PSFS shall be described on the Process Flow Diagram (PFD) after completion. The safeguarding equipment shall be stated in larger and thicker letters than those of other portions so that they can be clearly discernible.
- (2) Symbols and drawing forms shall be subject to the PFD preparation procedure and the following Safeguarding Equipment List shall be entered as a summary above title block of the drawings located to the right side thereof.

Notes :

Explanation of column above list

- (1) Tag Number : Item number of safeguarding equipment
- (2) Location : Item numbers of equipment to be protected
- (3) Function : Extreme conditions
- (4) Action : Actions for protection