



# PRE-START UP SAFETY REVIEWS (PSSR)

*Confirming plant safety after construction, modifications or shutdowns.*

All too often, large projects or shutdowns fall behind schedule and/or run over budget, which creates pressure on the project team to eliminate or postpone the installation of items or implementation of systems that are not absolutely necessary for the start-up. If this is not controlled properly, it can lead to corner-cutting, either intentional or inadvertent, which may then jeopardize safety.

The PSSR is a safety review conducted prior to start up (commissioning) of a new, modified or returning from shutdown processing/manufacturing plant or facility. It therefore ensures that installations meet the original design or operating intent and that systems are fully restored. In other words, it ensures the “ready for start-up” status of process facilities/units. In performing a PSSR, Bureau Veritas ensures that:

- The system is defined;
- A qualified team is assembled;
- Physical examination of the plant, process and equipment is conducted;
- Key personnel are interviewed;
- Documentation (engineering, risk studies, training, etc.) is reviewed; and
- Actions to be completed before start-up are identified.



## Key benefits

There are many benefits to be gained from performing a pre-start up safety review of processes, which may include confirming that:

- Installation meets the original design and operating intent of process plant/facility;
- Safety, operating, maintenance and emergency procedures are in place and adequate;
- Appropriate safety reviews during engineering phase (HAZOP study, model review etc.) have been carried out and all action items have been completed;
- Any site modifications during construction phase have been properly controlled and noted; and
- Training of each employee involved in the operating process is completed.

## Related services

- Process safety management (PSM)
- Regulatory compliance audits

