What is Commissioning? (and related terms)

Rev. 01

www.OnlineCommissioningTraining.com
www.EPCLessons.com

De-Commissioning means taking out of active use and dismantling of an industrial plant.

Solving of outstanding punch points after the plant has been handed over to the client.

Check, if the plant meets the specifications under normal operating conditions.

The phase in a project after start-up of the complete plant in order to adjust, tweak, optimize and prepare the plant for the performance testing phase.

The phase in a project where the entire plant (all systems and sub-systems) are taken into operation. Process fluids are introduced and process conditions are established with the intent of making products.

Commissioning is usually the phase in a project when design process fluids are introduced to the systems and sub-systems. Sometimes commissioning means running the systems with a safe fluid only.

Synonym for „Hot Commissioning“

Design process fluids are introduced in the systems and sub-systems.

„Operating Scenarios“

Important Note:
The intention of this document is to bring a little bit of light into the different terms used worldwide by different companies. „To find a common denominator.“

Maybe your company understands e.g. „Wet Commissioning“ completely different than your friend’s company. This is ok. Just use the documents by your company.

P&ID Checking
System Check
Walkdown
Punching

Mechanical Completion
Pre-Commissioning

Start-Up
PSSR

Commissioning

Live Commissioning
Hot Commissioning

Pre Start-Up Safety Review

Wet Commissioning
Dry Commissioning
Cold Commissioning

System check for engineering and construction errors after handing over a system or sub-system from construction team to commissioning team

Synonym for „P&ID Checking“

Another synonym for „P&ID Checking“

And one more synonym for „P&ID Checking“. A punch list is created during P&ID checking.

Checking & testing of equipment and construction to confirm that the installation is in accordance with drawings and specifications and ready for pre-commissioning OR commissioning in a safe manner and in compliance with project requirements.

Pre-commissioning activities usually start after the system achieved mechanical completion. Pre-commissioning activities include: flushing and cleaning, drying, leak testing, running-in of equipment etc. Sometimes pre-commissioning activities are included into mechanical completion.

API 1FSC: „Static Commissioning“

Tests and procedures that are conducted without solvents or process fluids yet introduced to the plant. For example control system sequence tests.

Water or solvent has been introduced into the systems and sub-systems. Tests and procedures conducted with water or solvents.

„Operating Scenarios“ - for example running pumps in closed loops.