

Description of *SMP™*

1. What Is It?

Startup Management Process (*SMP™*) is *MTS'* specific application of its Process Management Methodology (*The MTS System*) to startup situations of new plants and equipment.

1. What Is It For?

SMP™ is designed to systematize the startup and to optimize the operation subsequent to the startup.

2. What Does *SMP* Do?

- ▶ Plans the plant startup
- ▶ Documents the commissioning and startup procedures and the processes of the plant
- ▶ Trains the people before, during and after the startup
- ▶ Improves the operation based on the startup learnings.

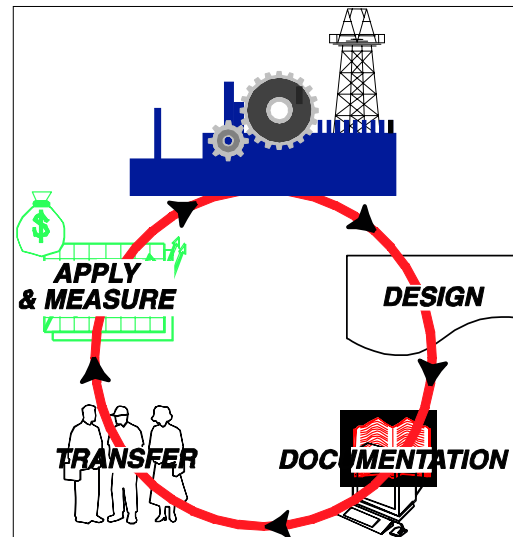
3. What Does It Consist Of?

See the *SMP™ Cycle* on the right.

4. How Does It Work?

Typically an *MTS* consultant teams up with the customer's operation, maintenance and engineering team to plan and execute the startup. The more the customer gets involved – especially those who are responsible for operating and maintaining the plant after the startup, the more lasting the results. Commissioning and startup are unique learning opportunities that should include not only the experts, but also those who will be ultimately responsible for the plant.

The *SMP™* Cycle



1. In the Design Phase, the following items are planned:

- ▶ The startup and related activities, including commissioning
- ▶ The process and equipment manuals to be written
- ▶ The training to be done before, during and after the startup
- ▶ The actual startup and the performance indicators to measure it

2. In the Documentation Phase:

- ▶ The startup and commissioning procedures are written
- ▶ The process and equipment manuals to be used before, during and after started up are written

3. In the Transfer Phase:

- ▶ The startup team is trained on the startup and commissioning
- ▶ The operating and maintenance teams are trained on their function

4. In the Apply & Measure Phase:

- ▶ The plant is commissioned and started up according to plans
- ▶ The results of the activities are systematically reviewed for learnings
- ▶ Plans are developed to apply the learnings