



# Operational Excellence Services

## Commissioning & Start-up Commissioning Safety



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### Access to Our Homepage

<https://www.jgc.com/en/business/epc/operation-maintenance/service/>

# Commissioning Safety

Do you have any of these issues?

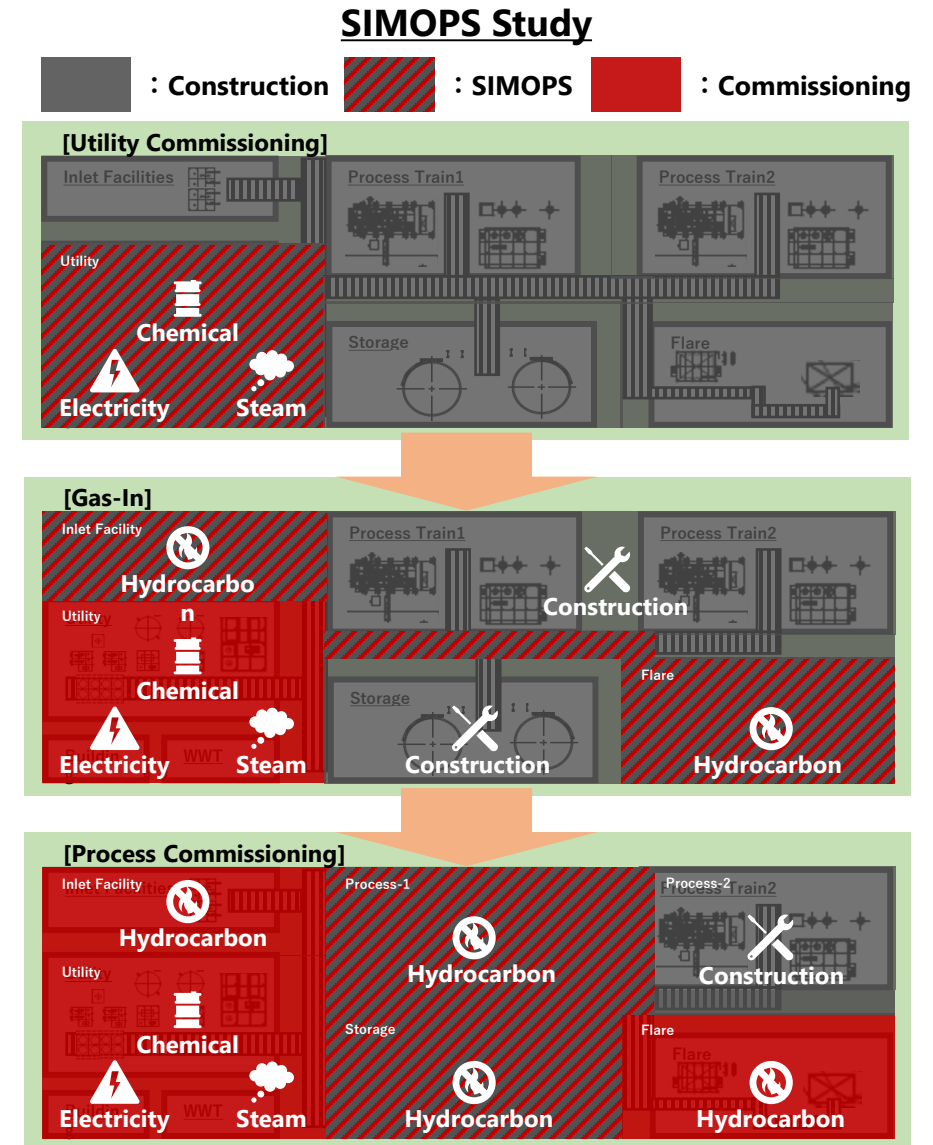
☹️ **Introduction of hazardous material in areas where construction is still in progress**

- ✓ **Electricity**
- ✓ **Chemicals**
- ✓ **Steam**
- ✓ **Hydrocarbon**

## Our Solution

Provide consultation on the following plans/topics:

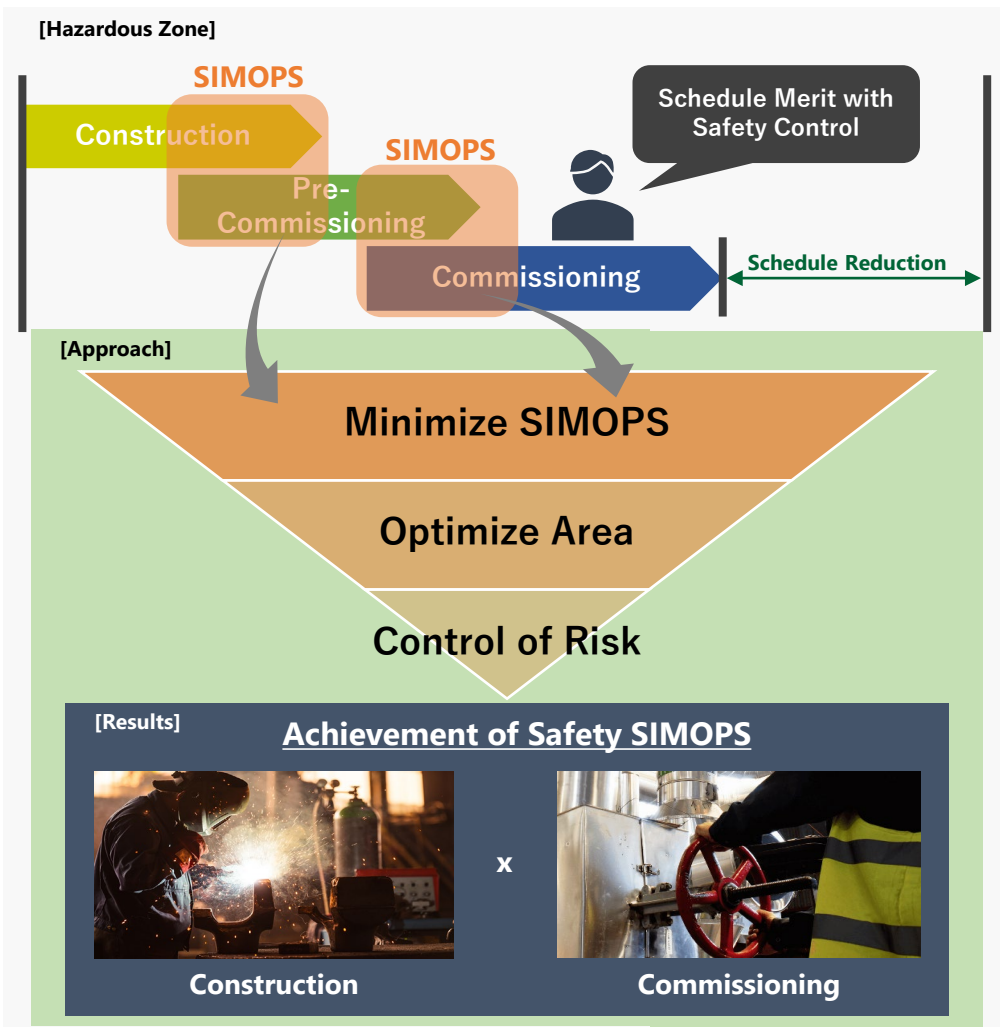
- Completion Plan
- Systemization
- Identify Safety Risks and Prepare Risk Mitigation (SIMOPS Study)
- Design/Engineering Considerations (Additional Isolations)
- QRA Study with Technical HSE Engineering



# Commissioning Safety

Return to Commissioning & Startup menu 

## Workflow & Result



## Our Strengths

- Professional Process & Material Engineer Teams
- Top global results and performances on Degradation Assessment, Inspection Planning, On-site Inspection.
- Utilization of big data that integrates customer plant operating data and JGC design data to forecast future plants' needs
- Collaboration between overseas EPC-capable group companies and local maintenance companies.



## Our Experiment

- CSU planning using system definitions since early 1990s
- SIMOPS study since early 2000s
- Continued to ensure commissioning safety in recent larger and more complex projects.