JGC Operational Excellence Services

Operation

CASTOR®

Operation

Decarbonization

HSE

Reliability & Maintenance

Technical Assistance & Training

Smart O&M Solutions

Operational Excellence Services

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Access to Our Homepage

https://www.jgc.com/en/business/epc/operation-maintanance/service/

CASTOR® (Commissioning and Startup Transient Operability Review)
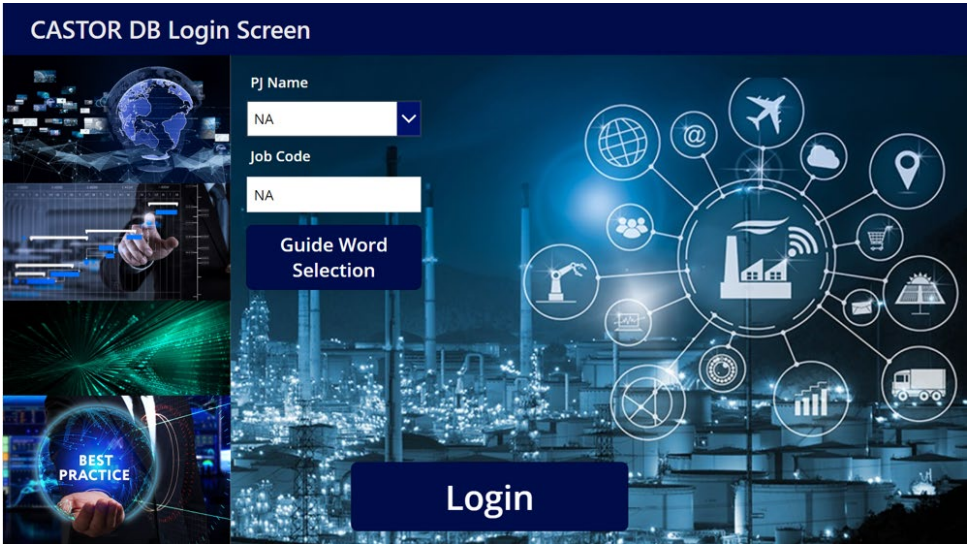
Do you have any of these issues?

☹ **Concerns on Commissioning and Startup Plan**

☹ **Lack of (or No) Experience in Plant Startup**

☹ **Introduction of Unfamiliar Equipment/Unit**

CASTOR® Solution

- Reveal risks during transient state operation at commissioning and initial startup phase
- Plan mitigation actions against risks
- Increase likelihood of successful commissioning and plant startup
- Minimize downtime due to trouble
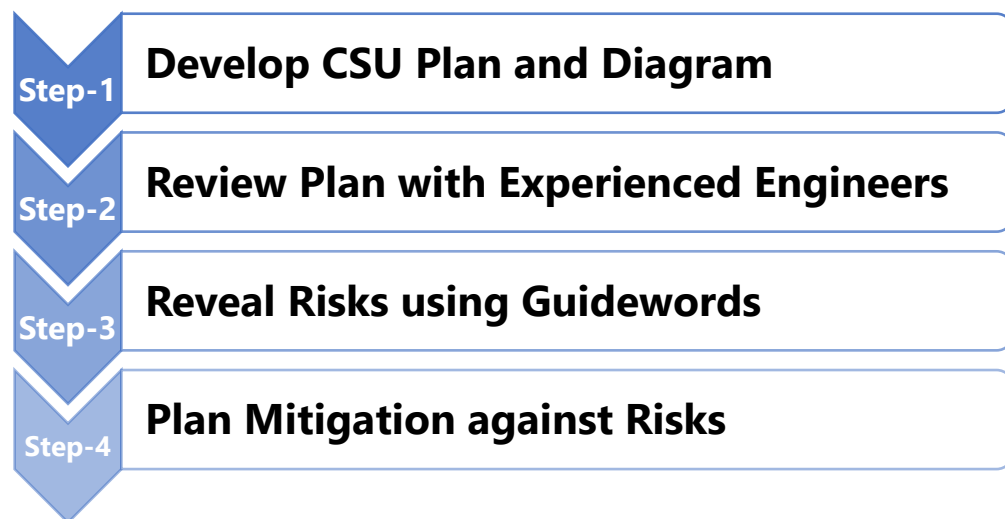- Eliminate risks of schedule delay

CASTOR Guideword Template (General)

CASTOR Database

Enhancing **planetary health**

CASTOR® (Commissioning and Startup Transient Operability Review)

Workflow & Results

Workflow of CASTOR®

Step-1 — **Develop CSU Plan and Diagram**

Step-2 — **Review Plan with Experienced Engineers**

Step-3 — **Reveal Risks using Guidewords**

Step-4 — **Plan Mitigation against Risks**

- Develop Commissioning and Startup (CSU) Plan and Diagram
- Review CSU Plan and Diagram with highly experienced engineers
- Reveal risks related to transient operation during Commissioning and Startup using Guidewords and experiences of engineers
- Plan mitigation actions against revealed risks
- Improvement of Operation Manuals, Procedures (SOP), Training Programs and updating of procedures for existing plants

Our Strengths

- Professional Process & Commissioning Engineer Teams
- World-class experiences and expertise in Plant Commissioning and Startup as an EPC Contractor
- A wealth of Lessons Learned about Commissioning and Startup
- Experiences in various types of plant like LNG, Refinery, NGL, GOSP, Floating LNG, Chemical, etc.

Our Experiences

- CASTOR® for LNG, NGL, GOSP, Floating LNG, Ethylene, etc.
- Not only for EPC but also for FEED projects
- Long history of startup review as the predecessors of CASTOR®
  == > CASTOR Database

CASTOR®
Since 2015
7 Cases

Enhancing **planetary health**