



Operational Excellence Services

Commissioning & Start-up
Operations Readiness & Assurance (OR&A)



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Operations Readiness & Assurance (OR&A) Program

Do you have any of these issues?

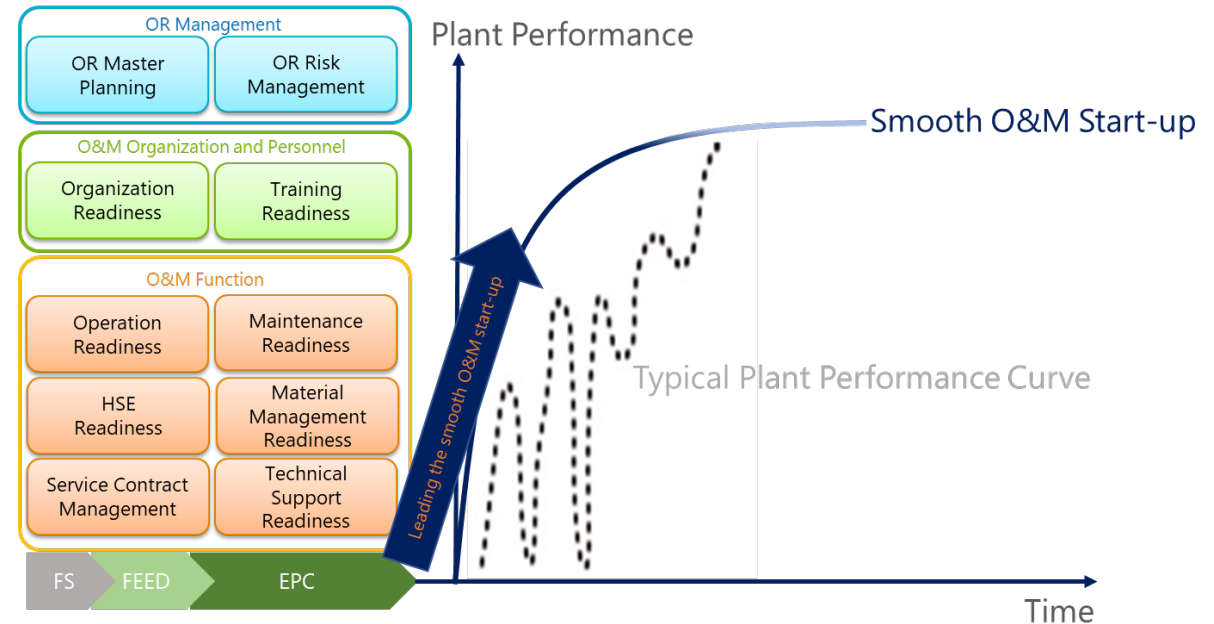
- ☹️ **Concern of safe and smooth start-up of O&M**
- ☹️ **High total cost of ownership**
- ☹️ **Potential areas of concerns and its mitigations in OR***

OR&A Solution

- Execute OR&A program for all OR key components of facilities** by expert team
- Assess OR plan and progress and reporting with findings and mitigations
- Follow up prioritized mitigation actions to reduce OR risk and to minimize the facility total cost of ownership

*OR : Operations Readiness

**facilities : Onshore and offshore O&G plant, chemical plant etc.



Operations Readiness & Assurance (OR&A) Program

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Workflow & Result

A) OR&A Planning Phase

1. Verification of overall OR schedule
2. Define OR elements
3. Establish OR progress and KPI tracking system

B) Assurance Phase

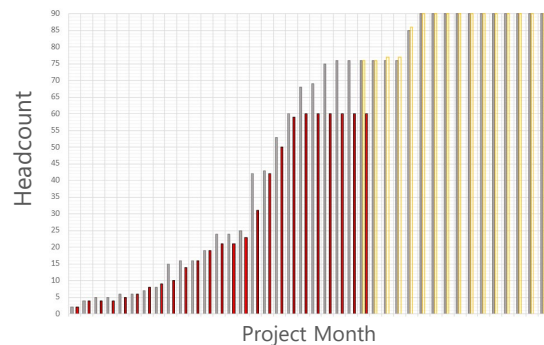
1. Monitor OR activities
2. Assess the progress and risk for OR activities (Health Check)
3. Report and follow up mitigation actions

Our Strengths

- Standardized OR&A program based on FLNG project
- Expert O&M engineers with experiences in operating companies
- Utilization of global project management experiences from over 20,000 FEED and EPC projects

Our Experiences

- OR&A program execution for FLNG O&M
- Operations audit for FPSO in West Africa
- O&M and Training readiness planning and execution for various EPC projects



Recruiting Progress Tracking

| OR Components | Business Processes | Status | Plan | Forecast | Actual |
|------------------------|---------------------------------------|-------------|------|----------|--------|
| Organization Readiness | Recruiting for O&M personnel | Completed | 😊 | 😊 | 😊 |
| Training Readiness | Competency Assessment | Completed | 😊 | 😊 | 😊 |
| HSE Readiness | PTW | Completed | 😊 | 😊 | 😊 |
| HSE Readiness | LOTO | In progress | 😊 | 😊 | 😊 |
| HSE Readiness | Emergency Response | In progress | 😊 | 😊 | 😊 |
| HSE Readiness | Spill Prevention | In progress | 😊 | 😊 | 😊 |
| HSE Readiness | Waste Management Plan | Not Started | 😞 | 😊 | 😊 |
| Operation Readiness | Production Reporting | Not Started | 😞 | 😊 | 😊 |
| Operation Readiness | Laboratry Analysis | In progress | 😊 | 😊 | 😊 |
| Operation Readiness | Crew Change | Completed | 😊 | 😊 | 😊 |
| Maintenance Readiness | Maintenance Management (Work Process) | Not Started | 😊 | 😊 | 😊 |

Business Process Progress Tracking

Sample Progress and KPI tracking system