

Technical Assistance & Training Asset & Operation Due Diligence



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Asset & Operation Due Diligence

Do you have any of these issues?

- **Considering investment for operating assets**
- Audit for operation and maintenance of operating assets

Focus Areas

- *Facility design and construction* in accordance with recognized and generally accepted engineering practices
- Implementation of *Process Hazard Analysis*
- Established Operation Manual
 - ✓ Startup and Shutdown
 - ✓ Normal operations
 - ✓ Emergency Operations
- Deployment of *safe work practices*
- Written procedures for maintenance, inspections and testing
- Rigorous *quality assurance* systems
- Training and competency management system

Asset & Operation Management Framework

	1. Mana	1. Management Leadership						
	2. Risk	2. Risk Assessment						
	4. Facili	ty De	esign and Constru	ction				
	5. Infor	5. Information & Documentation						
Maintenance			Operation		Emergency Response			
Management of Change								
-			6. Operation Procedure		11.Incident Investigation			
Mechanical Integrity					Intestigation			
					12. Emergency Planning and			
Contractors			10. Training					
					Response			
Occupa	ation Health	and	Safety					
	_				_			
14. Assessment & Improvement								

3.

7.

8.

9.

Enhancing planetary health

Asset & Operation Due Diligence

Example of JGC's PSM Assessment Checklist

No.	Requirement	Guideline for Compliance	Observation	Opportunities / Comments
5.0	In accordance with the schedule set forth in [paragraph 3.1] of this section, the employer shall complete a compliation of <u>written</u> process safety information before conducting any process hazard analysis required by the standard. The compilation of written process safety information is to enable the employer and the employees involved in operating the process to <u>identify</u> , and <u>understand the hazards</u> posed by those processes involving highly hazardous chemicals. This process safety information shall include information pertaining to the hazards of the <u>highly hazardous chemicals</u> used or produced by the process, information pertaining to the <u>technology</u> of	A procedure to manage PSI defined in the paragraph 2.1 through 2.3 should be developed. Information applicable as PSI should be clearly defined in the procedure. Management process of PSI, including roles & responsibilities of owners should be developed. PSI should be periodically updated according to Management of Change processes. (<i>Refer to</i> <i>Element-10</i>) Guidelines to conform	Observations during the inter be described column	view will in this
 information pertaining to the <u>technology</u> of the process, not information pertaining to the <u>technology</u> of the equipment of the process. informative vision between the information required by this subpararaph. 		to OSHA requirements as per JGC's knowledge and and experiences July: Threshold Limit Value TWA: Time Weighted Average STEL: Short Tem Exposure Limit TUVC: Threshold Limit Value Caling IDLF: mmediately Dargerous to Life or Health All MSDS should be supplied from manufacturers and compiled. When a contractor brings highly hazardous chemicals to the plant then the contractor shall show MSDS to the employer and obtain approval.	Improvement opportunities identified during the interview will be described in this column.	
5.2	Information pertaining to the <u>technology</u> of the process.	 Most of <u>technology</u> information should be developed during the EPC phase and delivered from the EPC contractor. 		

Element 5: Information & Documentation

Our Strengths

- Extensive, worldwide EPC project and maintenance experiences
- Experience in investment for operating assets
- Professional Operation & Maintenance Engineer Teams
- Asset & Operation Management (AOM) system based on OSHA PSM
- Experience in Due Diligence (DD) and audits for operating plants.

Our Experiences

O&M Due
Diligence3 + CasesAudits for
O&M5 + Cases