



CHECKLIST: HUMAN FACTORS CONSIDERATIONS			
CONSIDERATION	APPLIES	N/A	COMMENTS
Task Considerations			
1. Cognitive and physical task analysis			
2. Functions allocated to humans			
3. Human reliability analysis			
Process Equipment/Piping/Etc. Considerations			
1. Labeling			
2. Valve placement			
3. Gauge design and location			
4. Access for maintenance and control			
5. Physical requirements, e.g., strength, reach, etc.			
6. Communications			
7. Visual requirements			
8. Shift schedules			
9. Warning signs			
Control Room Design Considerations			
1. Console design and arrangement			
2. Seating			
3. Visual workspace			
4. Reach distances to controls and input devices			
5. Space provision (storage and personal)			
6. Interfaces with other areas of platform with respect to movement, communication and information flow			
7. Control building layout, aesthetics, and environment			
8. Communication protocols			
9. Personnel selection			
10. Alarm rationalization and emergency response			
11. Human error analysis for Process Safety Management			
12. Shiftwork effects			
13. Maintainability of the system			
14. Human-human interactions			
15. Task analysis and function allocation			
16. Physical arrangement of control suite			
17. Ancillary facilities			
18. Abnormal situation management			
19. Program architecture			
20. Other duties			
21. Function allocation			
22. Situation awareness			
23. Contextual navigation			
24. Organizational interactions			
25. Knowledge requirements			
26. Mental workload			
Human-Computer Interaction			
1. Control selection			
2. Input Devices and data entry			
3. Type of Information			
4. Display Method (VDT & Projected Images)			
5. Information presentation (e.g. color, size, font type, line type)			
6. Dialogue principles			



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CONSIDERATION	APPLIES	N/A	COMMENTS
7. Operator/Maintainer Guidance			
Human Environment Interaction			
1. Thermal (Temperature, relative humidity, air velocity)			
2. Noise			
3. Lighting (Luminance, reflected glare, contrast, color)			
4. Vibration			
Other			
1. Maintenance			
2. Training			
3. Procedures			
4. Egress during emergencies			
5. Personal protective equipment			
Project Specific Issues			
1. Are there any project specific HFE standards?			
2. Are there any client specific HFE standards?			
3. Are there any regulatory requirements from the local government specific to HFE?			
4. Has a human factors report been prepared?			
5. What are the local requirements vis-à-vis human factors?			
6. Have there been any models (PDS or PDMS) reviewed? Are any planned?			
7. Are HAZOP reports available for review? Do they list human activities as either mitigators or initiators?			
8. Are specific ergonomics or HFE reviews planned?			
9. Is a labeling plan in place?			
10. Is a procedure development plan in place?			
11. Are vendor specification packet reviews planned and will they include HFE support?			
12. Has a task analysis been completed?			
13. Are maintenance requirements in place and understood by the project planners?			
14. Do the business objectives include issues related to HFE (i.e., increased operability and maintainability)?			