



Exploration & Production

GENERAL SPECIFICATION

PIPING VALVES VESSELS

GS EP PVV 116

Model review check list

02	10/05	Addition of "EP" root to GS identification
01	10/03	Change of Group name and logo
00	02/01	First issue
Rev.	Date	Notes

Contents

1. Scope	4
2. Reference documents.....	4
3. Legend	5
4. Model line by line check	5
5. Design safety engineering.....	5
6. Package units	5
7. Model layout	6
8. Exchangers.....	6
9. Fired heaters.....	7
10. Instruments.....	8
10.1 P&IDs checks	8
10.2 Accessibility (*)	8
10.3 Orifice Flange Sets and In-line Equipment (*)	8
10.4 Level displacers	8
10.5 Temperature and Pressure Tappings (*)	8
10.6 Control valves (*)	8
10.7 Local Panels (*)	9
10.8 Analyser Houses (*).....	9
10.9 Dial Thermometers (*)	9
10.10 Relief Valves.....	9
10.11 Conduits/Cables	9
11. Pumps	9
12. Compressors	10
13. Other mechanical equipment	10
14. Piping	11



15. PSVs.....	13
16. Utilities	13
17. Vessels.....	14
18. Miscellaneous.....	15
Appendix 1 Model review comments.....	16

1. Scope

The object of the Model Review Checklist is to provide guidelines for checking the model both on a continuous basis and during the formal Model Review. This review shall take place after Engineering and Design have completed their checking to the latest issued P&IDs. Minimum changes are expected at this stage since the model has been under review by the Project. Engineering Co-ordinator and specialists as an on-going function during the construction.

The checklist is general in nature and may require modification for specific Projects.

It should be particularly noted that many of the checklist items relate to fundamental tasks which should have been carried out during the conceptual layout and plot plan stage to comply with Process requirements, and during the on-going review of documents extracted from the model. They are included in the list to assist Engineering Groups during this review but are indicated by an asterisk. To make changes at final model review based on these fundamental checks is far too late and must be avoided.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
Not applicable	

Professional Documents

Reference	Title
API RP 520	Sizing, Selection and Installation of Pressure-Relieving Devices in Refineries

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
Not applicable	

3. Legend

SCRN	Check during the Screen Review
DOCT	Check during the Document Review
COMM	Commissioning Engineer
CONST	Construction Representative
ELC	Electrical Equipment Engineer
MEC	Mechanical Equipment Engineer
INS	Instrument Engineer
PROC	Process Engineer
PROJ	Project Engineer
SEV	Project Design Safety Engineer
TE	Thermal Equipment Engineer
TCS	Piping/Vessels/Welding Engineer
UTIL	Utilities
(*)	Fundamental check to be carried out during layout development, plot plan review, and on-going review

4. Model line by line check

The model shall be checked against the P&IDs. Note the Utilities Engineer has the Process and Project Engineer's responsibility for certain utilities system.

5. Design safety engineering

The model shall be separately reviewed against safety requirements applicable to the Project.

6. Package units

Package Units are not normally modelled in detail and are usually shown as a block. Ensure adequate space is available for access and for removal of components of the package units.