

Index: Common Engineering Documents

The list shown here is the standard list of engineering documents issued on a Project. An illustration of each one of them can be found at the indicated page.

General

Engineering execution plan	6
Engineering design basis.....	14
Engineering quality plan.....	187
Document control procedure	191
Engineering document register	191

Process

Process flow diagram	17
Process equipment list.....	17
Process fluids list	28
Heat and material balance	18
Process data sheet	19
Process description and operating philosophy.....	20
Piping and instrumentation diagram (P&ID)	21
Process line list	29
Process causes and effects diagram.....	23
Emergency shutdown (ESD) cause and effect diagram	24
Emergency shutdown (ESD) simplified diagram	25
Emergency shutdown (ESD) logic diagram	25
Emergency shutdown and depressurization philosophy	26
Flare Report	26
Calculation note	29
Operating manual	30

Equipment/Mechanical

Supply specification.....	36
Mechanical data sheet	33
Heat Exchanger Data Sheet	32
Material requisition	36

Technical bid tabulation	37
Equipment summary	39
Plant Layout	
General plot plan	43
Key plan	9
Unit plot plan	49
Health, Safety and Environment (HSE)	
HAZOP report	53
Fire water demand calculation note	55
Fire water piping & instrument diagram	56
Deluge system arrangement drawing	57
Fire fighting equipment location drawing	57
Passive fire protection drawing	58
Fire and gas detection layout drawing	60
Fire and gas matrix	61
Hazardous area classification drawing	62
Quantitative risk analysis (QRA)	63
Health and environment requirements specification	68
Environmental impact assessment	69
Noise study	70
Civil (On-Shore)	
Soil investigation specification	71
Grading plan	72
Foundation calculation note	76
Foundation drawing	77
Civil works specification	78
Civil standard drawing	78
Construction standard	79
Steel structure calculation note	84
Steel structure design drawing	84
Steel structure standard drawing	87
Civil works installation drawing	88

Building architectural drawing	90
Building detail drawing	91
Structure (Off-Shore)	
Primary steel structure drawing.....	79
Structural steel specification.....	80
Steel structure material take-off	80
Secondary steel structure drawing.....	81
Weight report.....	40
Material & Corrosion	
Material selection diagram.....	95
Painting specification	97
Insulation specification	98
Piping	
Piping material classes specification.....	101
Line diagram	106
Piping layout drawing.....	110
Piping general arrangement drawing	112
Piping isometric drawing.....	113
Line list	116
Piping stress calculation note	118
Standard pipe support drawing	121
Special pipe support drawing.....	121
Piping material take-off.....	128
Handling	
Handling equipment drawing	126
Instrumentation & Control	
System architecture drawing	136
Functional diagram.....	134
Control narrative.....	135
Mimic display.....	137
Instrument index.....	140

Instrument data sheet.....	141
Level sketch	142
Junction box location drawing.....	144
Instrument location drawing	145
Cable routing drawing	146
Cable cross section drawing.....	146
Cable schedule	146
Cable material take-off	147
Instrument hook-up drawing	147
Bulk material take-off	148
Standard installation drawing.....	149
Equipment layout drawing.....	149
Junction box wiring diagram	150
Loop diagram	151
 Electrical	
Electrical load list.....	156
Electrical load summary.....	157
General one line diagram.....	160
Equipment data sheet	161
Switchgear single line diagram	162
Typical diagram.....	163
Control system architecture drawing.....	165
Equipment layout drawing	166
Lighting layout drawing	167
Cable routing drawing	168
Cable schedule	168
Typical installation drawing	169
Block diagram	169
Bulk material take-off	170
Trouble shooting diagram	170
Electrical calculation.....	171