



Exploration & Production

GENERAL SPECIFICATION

DESIGN OF FIELD FACILITIES

GS EP ECI 003

Numbering of wells, facilities, equipment and documents at project definition phase

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1. Scope

The purpose of this specification is to define the main requirements for naming and numbering at the project definition phase of oil & gas installations, this concerns particularly:

- Naming / numbering of wells, facilities and infrastructures,
- Numbering of systems, sub-systems, equipment, instruments, piping, sea-lines and pipelines, documents.

The objective is to provide a consistent basis for naming and numbering throughout the phases from: project definition to project execution and production operations.

The whole set of GS dealing with naming and numbering establish a complete and coherent collection to which this GS makes reference.

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
ISO 3166-1	Codes for the representation of names of countries and their subdivisions
ISO 7200	Technical product documentation - Data fields in title blocks and document headers

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	



Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP EXP 501	Equipment and piping numbering
GS EP INS 102	Instrumentation identification

3. Terminology and definitions

There are five types of **statements** in this specification, the “shall”, “should”, “may”, “can” and “must” statements. They are to be understood as follows:

Shall	Is to be understood as mandatory. Deviating from a “shall” statement requires derogation approved by Company.
Should	Is to be understood as strongly recommended to comply with the requirements of the specification. Alternatives shall provide a similar level of protection and this shall be documented.
May	Is to be understood as permission.
Can	Is to be understood as a physical possibility.
Must	Expresses a regulatory obligation

Note that “will” is not to be understood as a statement. Its use is to be avoided, unless it is necessary to describe a sequence of events.

For the purpose of this specification, the following definitions shall apply:

CAD system	Computer Assisted Drawing system
Document	Pieces of information gathered for a specific goal on a support identified by a unique reference. It is an information “vehicle” as opposed to the information itself (e.g. data). A document may include one or more electronic files. A document itself may include one or more documents (e.g. a Study with appendices).
Drawing	All graphical representation with a technical purpose and applicability issued during a project
Format	Format may have two meanings: 1)“ <u>Electronic file</u> ” <u>Format</u> : Characterizes the form in which an information is recorded on its support, or coded in its electronic file. For documents on digital supports, it is generally determined by the software used to generate it and it is characterized by its file extension(s): .doc, .xls, .pdf, etc..., It can be native or imported (from



	another application),
	2)"Paper, print / document" Format= Size (A0, A1,...,A4), orientation.
Graphics	The art or science of drawing a representation of an object
Project definition	All studies carried out from discovery to before basic engineering / FEED such as: preliminary study, conceptual studies and pre-project
Project execution	All studies and works carried out from basic engineering / FEED up to facilities commissioning.
Reference numbering	A structured set of codes (numerical and alphabetical character chains), unique for each document, enabling its identification as well as its filing and simple searching.
Support	The type of physical support or physical form under which a document is accessible, such as: paper / server / magnetic support / CD ROM.
Symbol	All conventional sign used in writing, drawing or printing to represent equipment of petroleum facilities or infrastructures on PFDs and PIDs
System/sub-system	A group of devices, components or equipment that together are considered as a functional unit
Title block	A box shown on a document or a drawing relating to ownership, identification and numbering of said document / drawing
Visuals	Visible elements of a document or drawing such as letter, color, line, dash, etc....

4. Numbering of wells

4.1 General

All wells should be identified by a relevant number / name during the project definition. Existing wells shall keep their original number / name. New wells and re-entered wells (at least for their new or refit section) shall be named according to the following.

A new numbering of wells can be implemented at development drilling phase and be applicable at project execution & production operations phases.

4.2 Numbering structure

The alphanumeric numbering structure used to identify wells comprises two fields:

D	W	0	0	1
Type of well Code (Disposal well)		Sequential Number		

4.3 Type of well code (two alphabetic characters)

Two alphabetic characters shall identify the type of well according to the following table:

OP	oil producer well
GP	gas producer well
WI	water injection well
GI	gas injection well
SI	steam injection well
WS	water supply well
DW	disposal well
EX	exploration well
AP	appraisal well
OB	observation well

4.4 Sequential number (three numeric characters)

The second field shall be a number from 001 to 999 free for the user.

5. Naming of surface facilities

5.1 General

The following naming rule shall apply to all surface facilities:

- offshore facilities such as: platforms (wellhead (or drilling) platforms, production / utilities / flare / compression platforms, quarter platforms, export platforms..), FSO, FPSO & FPU, loading buoys, TLP, SPAR, pipelines...
- onshore facilities such as: well pad location, gathering or degassing stations, central treatment / production facilities, water supply station, water injection plant, boosting / pumping stations, tank farms, operating & offices centre & accommodation base, gas, LPG, GNL or LNG plants...
- with the exception of: flow lines (infield lines), cable, equipment, instruments, piping, drawings, and documents.

All relevant onshore and offshore oil & gas surface facilities & infrastructures shall be identified by one unique name from the project definition to the execution and production phases.

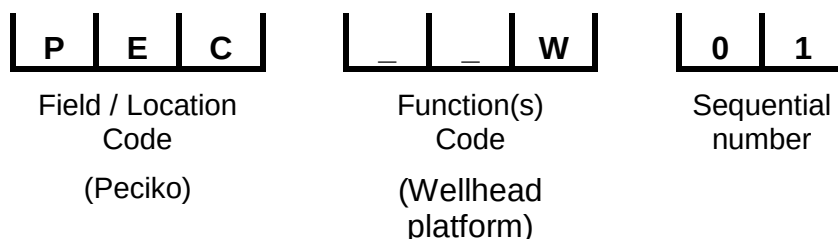
The first occurrence of a name takes place during the project definition (conceptual or pre-project phase), and shall apply throughout the project subsequent execution and production phases.

The aim of this name is to easily, quickly and without ambiguity in meaning, identify the surface facilities or infrastructures both in the project documents, and in the running of the installation.

The name shall be selected according to the following.

5.2 Naming structure

The alphanumeric naming structure used to identify facilities / infrastructures includes three fields as in the following example:



The naming system uses the following identifiers:

5.3 Field / location of facilities code (three alphanumeric characters)

Three alphabetical or numerical characters code shall define the (oil / gas) field whenever applicable and if not, the geographical location of the facilities.

In case of a project concerning more than one field, such as a pipeline, the name of the pipeline inlet point location shall be used.

When there are less than 3 characters in the code, an underscore mark is typed at the beginning to avoid blanks.

5.4 Function(s) code (three alphabetic characters)

Three alphabetic characters (including underscore) shall identify the main function(s) of the facilities as follows:

For offshore facilities / infrastructures:

__W	Wellhead platform
__P	Production platform including oil and/or gas treatment
__U	Only utility platforms
__C or __K	Only compression platform
__F	Only flare platform or floating unit
__M	Only manifold platform
__O	Only offloading offshore
__Q	Living quarter
__S	Storage unit
_WI	Only water injection platform

**For onshore facilities / infrastructures:**

__W	Wellhead platform
__P	Production platform including oil and/or gas treatment
__U	Only utility platforms
__C or __K	Only compression platform
__F	Only flare platform or floating unit
__M	Only manifold platform
__O	Only offloading offshore
__Q	Living quarter
__S	Storage unit
__WI	Only water injection platform

When there are less than 3 alphabetical characters in the code, an underscore mark is typed at the beginning to avoid blanks.

5.5 Sequential number (two numeric characters)

Two numeric characters, allocated in chronological order, starting from 01 to 99 free for the user.

6. Numbering of equipments, systems & sub-systems

Since part of equipment, systems and sub-systems are designed during project definition, the numbering of equipment shall be in accordance with the General Specification **GS EP EXP 501**.

The Sector code can be defined at project execution phase only.

7. Numbering of piping

Does not apply at project definition stage, unless PIDs are required; in that case the General Specification **GS EP EXP 501** is applicable, but the lines are not numbered.

8. Numbering of pipelines & sealines

Does not apply at project definition stage.

9. Numbering of instruments

Does not apply at project definition stage, unless PID or other relevant documents are specifically required, in that case Company General Specification **GS EP INS 102**, is applicable, but instruments are not numbered.

10. Numbering of drawings

10.1 General

During project definition, drawings only shall be numbered.

10.2 Numbering structure

Drawings are identified by a number affixed in the proper block's reserved area (refer to [ISO 7200](#)). It is used as record name or as file name under a CAD system.

Drawings numbering shall be conform to the format below:

I	D	P	E	C	0	8	0	5	0	0	0	0	0	2
Country Code		Field / Location Code			Study number		Type of drawing Code			Sequential Number				
(Indonesia)		(Peciko)					(Piping drawing)							

The numbering system uses the following identifiers:

10.3 Country code (two alphabetical characters)

This code represents the name of the country. It's a two letters code which shall be in compliance with the original [ISO 3166-1](#).

Refer to Appendix 1 given here for information only.

10.4 Field or location code (three alphabetical or numerical characters)

Three alphabetical or numerical characters code shall define the (oil / gas) field whenever applicable and if not, the geographical location of the facilities.

In case of a project concerning more than one field, such as a pipeline, the name of the pipeline inlet point location shall be used.

When there are less than three characters in the code, an underscore mark is typed at the beginning to avoid blanks.

10.5 Study number (two numerical characters)

This is a two digit number, which identifies the ranking chronological order of the study for the same field / location from 01 to 99.

10.6 Type of drawing code (three alphabetical or numerical characters)

This is a three digit string that indicates the related activity / discipline of the drawing. The codes are:

EPISTLE CODE (for info.)	CODE	TYPE OF DRAWING
A03	000	DRAWING LIST (with a copy under excel format .xls)
G01	010	BLOCK DIAGRAM
I09	011	ESD LOGIC DIAGRAM
G02/G03	012	PFD / UFD
G04	015	PID PROCESS
G04	015	PID UTILITIES
M01/M03/S25	020	GENERAL LAYOUT - PLOT PLAN
M01/M03/S25	025	SUBSEA LAYOUT
S27/S28	035	LIFT / CONSTRUCTION /INSTALLATION DRAWING
S00	040	CIVIL WORKS DRAWING
K00/Q00	045	BUILDING AND HVAC DRAWING
O00	050	PIPING DRAWING
L00	060	ELECTRICAL DRAWING
H00	070	INSTRUMENTATION DRAWING
J00	075	TELECOMMUNICATIONS DRAWING
S19	080	TOPOGRAPHY / BATHYMETRY DRAWING
S00	090	STRUCTURAL DRAWING
M00	100	VESSELS DRAWING
N00	110	PIPELINE / SEALINE DRAWING
U00	120	WELLS (DRILLING, PRODUCTION) DRAWING
R00	130	SAFETY DRAWING

EPISTLE = European Industry Step Technical Liaison Executive

10.7 Sequential number (six numerical characters)

Three digits are reserved for sequential number allocated in chronological order, starting from 000001 up to 000999 free for the user.

10.8 Revision index (two numerical characters)

The external revision indices are chronological, starting from 00 up to 99.



Bibliography

Reference	Title
GS EP ECP 105	Process documents to be prepared during engineering phase
GS EP ELE 001	Electrical design criteria



Appendix 1 Country codes

This list, is based on the reference document [ISO 3166-1](#), "Standard Country or Area Codes for Statistical Use" list, established by the United Nations Statistics Division.

COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE
AFGHANISTAN	AF	GERMANY	DE	NORTHERNMARIANA ISLANDS	MP
ALBANIA	AL	GHANA	GH	NORWAY	NO
ALGERIA	DZ	GIBRALTAR	GI	OMAN	OM
AMERICAN SAMOA	AS	GREECE	GR	PAKISTAN	PK
ANDORRA	AD	GREENLAND	GL	PALAU	PW
ANGOLA	AO	GRENADA	GD	PANAMA	PA
ANGUILLA	AI	GUADELOUPE	GP	PAPUA NEW GUINEA	PG
ANTARTICA	AQ	GUAM	GU	PARAGUAY	PY
ANTIGUA AND BARBUDA	AG	GUATEMALA	GT	PERU	PE
ARGENTINA	AR	GUINEE	GN	PHILIPPINES	PH
ARMENIA	AM	GUINEA-BISSAU	GW	PITCAIRN	PN
ARUBA	AW	GUYANA	GY	POLAND	PL
AUSTRALIA	AU	HAITI	HT	PORTUGAL	PT
AUSTRIA	AT	HEARD & MCDONALD ISLANDS	HM	PUERTO RICO	PR
AZERBAIJAN	AZ	HOLY SEE (VATICAN STATE)	VA	QATAR	QA
BAHAMAS	BS	HONDURAS	HN	REUNION	RE
BAHRAIN	BH	HONG KONG	HK	ROMANIA	RO
BANGLADESH	BD	HUNGARY	HU	RUSSIAN FEDERATION	RU
BARBADOS	BB	ICELAND	IS	RWANDA	RW
BELARUS	BY	INDIA	IN	SAINT HELENA	SH
BELGIUM	BE	INDONESIA	ID	SAINT KITTS AND NEVIS	KN
BELIZE	BZ	IRAN, ISLAMIC REPUBLIC OF	IR	SAINT LUCIA	LC
BENIN	BJ	IRAQ	IQ	SAINT PIERRE AND MIQUELON	PM
BERMUDA	BM	IRELAND	IE	SAINT VINCENT GRENADINES	VC
BHUTAN	BT	ISRAEL	IL	SAMOA	WS
BOLIVIA	BO	ITALY	IT	SAN MARINO	SM
BOSNIA AND HERZEGOVINA	BA	JAMAICA	JM	SAO TOME AND PRINCIPE	ST
BOTSWANA	BW	JAPAN	JP	SAUDI ARABIA	SA
BOUVET ISLAND	BV	JORDAN	JO	SENEGAL	SN
BRAZIL	BR	KAZAKSTAN	KZ	SEYCHELLES	SC
BRITISH INDIAN OCEAN	IO	KENYA	KE	SIERRA LEONE	SL
BRUNEI DARUSSALAM	BN	KIRIBATI	KI	SINGAPORE	SG
BULGARIA	BG	KOREA, DEMOCRATIC	KP	SLOVAKIA	SK
BURKINA FASO	BF	KOREA, REPUBLIC OF	KR	SLOVENIA	SI
BURUNDI	BI	KUWAIT	KW	SOLOMON ISLANDS	SB
CAMBODIA	KH	KYRGYSTAN	KG	SOMALIA	SO
CAMEROON	CM	LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA	SOUTH AFRICA	ZA



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Appendix 1

COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE
CANADA	CA	LATVIA	LV	SOUTH GEORGIA	GS
CAPE VERDE	CV	LEBANON	LB	SPAIN	ES
CAYMAN ISLANDS	KY	LESOTHO	LS	SRI LANKA	LK
CENTRAL AFRICAN REPUBLIC	CF	LIBERIA	LR	SUDAN	SD
CHAD	TD	LIBYAN ARAB JAMAHIRIYA	LY	SURINAME	SR
CHILE	CL	LIECHTENSTEIN	LI	SVALBARD AND JAN MAYEN	SJ
CHINA	CN	LITHUANIA	LT	SWAZILAND	SZ
CHRISTMAS ISLAND	CX	LUXEMBOURG	LU	SWEDEN	SE
COCOS (KEELING) ISLANDS	CC	MACAU	MO	SWITZERLAND	CH
COLOMBIA	CO	MACEDONIA,	MK	SYRIAN ARAB REPUBLIC	SY
COMOROS	KM	MADAGASCAR	MG	TAIWAN, PROVINCE OF CHINA	TW
CONGO	CG	MALAWI	MW	TAJIKISTAN	TJ
CONGO, THE DEMOCRATIC	CD	MALAYSIA	MY	TANZANIA, UNITED REPUBLIC	TZ
COOK ISLANDS	CK	MALDIVES	MV	THAILAND	TH
COSTA RICA	CR	MALI	ML	TOGO	TG
COTE D'IVOIRE	CI	MALTA	MT	TOKELAU	TK
CROATIA	HR	MARSHALL ISLANDS	MH	TONGA	TO
CUBA	CU	MARTINIQUE	MQ	TRINIDAD AND TOBAGO	TT
CYPRUS	CY	MAURITANIA	MR	TUNISIA	TN
CZECH REPUBLIC	CZ	MAURITIUS	MU	TURKEY	TR
DENMARK	DK	MAYOTTE	YT	TURKMENISTAN	TM
DJIBOUTI	DJ	MEXICO	MX	TURKS AND CAICOS ISLANDS	TC
DOMINICA	DM	MICRONESIA	FM	TUVALU	TV
DOMINICAN REPUBLIC	DO	MOLDOVA, REPUBLIC OF	MD	UGANDA	UG
EAST TIMOR	TP	MONACO	MC	UKRAINE	UA
ECUADOR	EC	MONGOLIA	MN	UNITED ARAB EMIRATES	AE
EGYPT	EG	MONTSERRAT	MS	UNITED KINGDOM	GB
EL SALVADOR	SV	MOROCCO	MA	UNITED STATES	US
EQUATORIAL GUINEA	GQ	MOZAMBIQUE	MZ	UNITED STATES MINOR OUTLYING ISLANDS	UM
ERITREA	ER	MYANMAR	MM	URUGUAY	UY
ESTONIA	EE	NAMIBIA	NA	UZBEKISTAN	UZ
ETHIOPIA	ET	NAURU	NR	VANUATU	VU
FALKLAND	FK	NEPAL	NP	VENEZUELA	VE
FAROE ISLANDS	FO	NETHERLANDS	NL	VIETNAM	VN
FIJI	FJ	NETHERLANDS ANTILLES	AN	VIRGIN ISLANDS, BRITISH	VG
FINLAND	FI	NEW CALEDONIA	NC	VIRGIN ISLANDS, U.S.	VI
FRANCE	FR	NEW ZEALAND	NZ	WALLIS AND FUTUNA	WF
FRENCH POLYNESIA	PF	NICARAGUA	NI	WESTERN SAHARA	EH
FRENCH GUIANA	GF	NIGER	NE	YEMEN	YE
GABON	GA	NIGERIA	NG	YUGOSLAVIA	YU
GAMBIA	GM	NIUE	NU	ZAMBIA	ZM
GEORGIA	GE	NORFOLK ISLAND	NF	ZIMBABWE	ZW