Eskom	Standard	Technology

Title: **Eskom KKS Key Part Standard**

Unique Identifier:	**240-109607736**
Alternative Reference Number:	**N/A**
Area of Applicability:	**Engineering and Generation**
Documentation Type:	**Standard**
Revision:	**1**
Total Pages:	**132**
Next Review Date:	**August 2021**
Disclosure Classification:	**CONTROLLED DISCLOSURE**

APPROVED FOR AUTHORISATION
☑ TECHNOLOGY ENGINEERING
DOCUMENT CENTRE ☎ X4962

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FIGURES

TABLES

1. INTRODUCTION

The KKS identification system for power plant serves to identify plants, sections of the plant, systems, equipment and components. It is used by all engineering disciplines for planning, construction, operation and maintenance. This KKS Key Part defines the codes as implemented by Eskom in accordance with the original VGB KKS Key Part. The KKS key was developed taking IEC and ISO standards together with the DIN 40719 Part 2 (IEC 750) into consideration

2. SUPPORTING CLAUSES

2.1 SCOPE

This document serves to provide a list of KKS codes and their descriptions adopted from the VGB guidelines, to be applied by the personnel involved in plant coding executed in all power stations.

2.1.1 Purpose

The objective of this document is to list and define the contents of KKS Key Parts applicable in identification of the plants, systems, equipment and components in coal, gas and hydro power plants.

2.1.2 Applicability

This document shall apply throughout Eskom KKS compliant power plants taking into account legacy use of KKS coding. All parties working with Engineering and Generations shall comply with the contents of this document.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

[2] ISO 10007 Guidelines for Configuration Management.

[3] 240-53114190 Internal Audit Procedure

[4] 240-53665024 Engineering Quality Manual

2.2.2 Informative

[5] DIN 40719 Part 2 (IEC 750)

[6] VGB-B 105 E KKS Key Part, KKS-Identification System for Power Stations.

[7] VGB-B 106 E Guidelines, Edition 2004

[8] 240-93576498 KKS Coding Standard

2.3 DEFINITIONS

Definition	Description
Hydro Power Plant	Hydropower would be the power that derives from the force of energy of the moving water.
New Builds	A newly built industrial facility for the generation of electric power
Plant Coding	KKS based plant coding system used to uniquely identify the location of plant items

Definition	Description
	down to component level (e.g. motor or pump)
Refurbishment	The state of being restored to a former good condition

2.3.1 Disclosure Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

The following abbreviations and references are used in this document:

Abbreviation	Description
DIN	Deutsche Industrie-Norm (German Industrial Standard)
IEC	International Electrotechnical Commission
ISO	International Standards Organisation
KKS	Kraftwerk Kennzeichen System (German for Power Plant Classification System)
VGB	Technische Vereinigung Der Grosskraftwerksbetreiber (German for Society of Large Power Station Operators)

2.5 ROLES AND RESPONSIBILITIES

It will be the responsibility of the Configuration Management Manager to implement, control and manage the contents of this procedure. Contractors and Eskom employees shall comply with this procedure.

2.6 PROCESS FOR MONITORING

This document shall be monitored through Internal Audit Procedure (240-53114190) as well as Engineering Quality Manual (240-53665024).

2.7 RELATED/SUPPORTING DOCUMENTS

All the reference documents.

3. KKS KEY PART CONTENTS

3.1 KKS CODE STRUCTURE

The tables in the appendices identify the KKS Key Part codes that are used in the KKS structure shown below. The codes in the appendices were derived from the VGB code list. The KKS code structure shall be according to the latest 240-93576498 KKS Coding Standard [8].

Table 1: Code structure

Serial number of BDL	0	1			2			3	
Title of BDL	Total plant	System code			Equipment code			Component code	
Data character	G	F_0	$F_1F_2F_3$	F_N	A_1A_2	A_N	A_3	B_1B_2	B_N
Type of key	N	N	AAA	NN	AA	NNN	A	AA	NN

3.1.1 Classifying code elements

The KKS code structure consists of classifying and numbering code elements. The alpha code elements F_1, F_2, F_3, A_1, A_2, and B_1, B_2 have a classifying function, and a full listing of these codes are given in Appendix A (For Coal fired plants), Appendix B (For Gas fired plants) and Appendix C (for Hydro powered plants).

The classifying coding characters and designations are listed as follows:

- System classification (BDL1); the coding characters F_1, F_2, F_3 are listed in the Function key
- Equipment unit classification of mechanical, electrical and C&I equipment units (BDL2); the coding characters A_1, A_2 are listed in the Equipment unit code key.
- Component classification (BDL3); the coding characters B_1, B_2 are listed in the Component code key.

3.1.2 Numbering code elements

The code elements G, F_0, F_N, A_N, A_3 and B_N have a numbering function. For an explanation of the data characters G, F_0, F_N, A_N, A_3 and B_N, refer to 240-93576498 KKS Coding Standard [8]. Equipment numbering character, A_N, codes are listed under Equipment numbering in Appendix A, B and C.

3.2 KKS KEY PART RULES

The alpha characters F_1, F_2, F_3, A_1, A_2, B_1, B_2 and A_N shall be coded strictly as per KKS Key Part (Appendix A, B and C). No deviations shall be permitted, should the KKS codes as defined in Appendix A, B and C not suit the particular technology or plant type, Eskom will formally approach the VGB for additions to the Key Part. It is not permitted to use keys that are “blocked” in the code.

The coding letters T, V and Y shall not be used as they are blocked by VGB for future use. Coding letters I and O shall not be used as stipulated by the VGB guidelines.

3.2.1 Boundaries

There are sections of the Function Key which indicate interfaces as shown below:

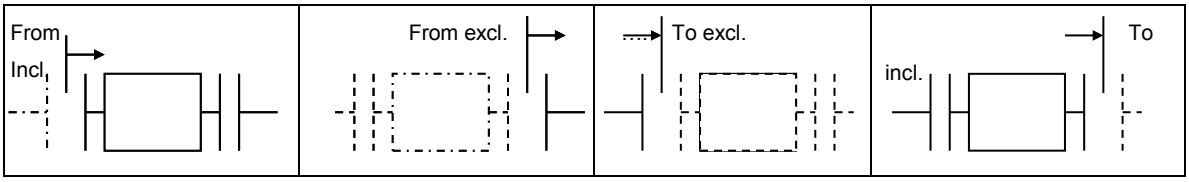

Figure 1: Interfaces

The boundaries definitions and meanings are given below:

Table 2: Interface definitions

Legends for the limits	
From ‘incl’	Means including the mentioned component
From ‘excl’	Means excluding the mentioned component
To ‘excl’	Means excluding the mentioned component
To ‘incl’	Means including the mentioned component

3.2.2 System Codes for Heavy Machinery

Certain 'components', such as steam turbines used as drives for feed water pumps, can require so many identification details that, as 'heavy machinery', they need separate system codes in order to permit identification of all associated mechanical equipment units and electrical, Control and Instrumentation (C&I) facilities. The system codes for such heavy machinery are fixed as "X" in main group F_1.

4. AUTHORISATION

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5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2016	0.1	J. Mathebula	Compiled first draft
May 2016	0.2	J. Mathebula	Draft Document for Comments Review
June 2016	0.3	J. Mathebula	Updated comments by the Compiler
July 2016	0.4	J. Mathebula	Jabulane requested document for changes
July 2016	0.5	J. Mathebula	Jabulane requested document for changes (2x)
August 2016	1	J. Mathebula	Final Document for Authorisation and Publication

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7. ACKNOWLEDGEMENTS

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APPENDIX A: KKS SYSTEM KEY PART

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
A	**GRID AND DISTRIBUTION SYSTEM**	**x**	**x**	**x**	**x**	**x**
AB	> 430 kV SYSTEM	x	x	x	x	x
ABA	431 - 765 kV System	x	x	x	x	x
ABB	> 766 kV System	x	x	x	x	x
AC	276 - 430 kV SYSTEM	x	x	x	x	x
ACA	276 - 400 kV System	x	x	x	x	x
ACB	401 - 430 kV System	x	x	x	x	x
ACT	276 - 430 kV Transformer	x	x	x	x	x
AD	166 - 275 kV SYSTEM	x	x	x	x	x
ADA	166 - 220 kV System	x	x	x	x	x
ADB	221 - 275 kV System	x	x	x	x	x
AE	89 - 165 kV SYSTEM	x	x	x	x	x
AEA	89 - 132 kV System	x	x	x	x	x
AEB	133 - 165 kV System	x	x	x	x	x
AF	51 - 88 kV SYSTEM	x	x	x	x	x
AFA	51 - 66 kV System	x	x	x	x	x
AFB	67 - 88 kV System	x	x	x	x	x
AG	36 - 50 kV SYSTEM	x	x	x	x	x
AGA	36 - 42 kV System	x	x	x	x	x
AGB	43 - 50 kV System	x	x	x	x	x
AH	26 - 35 kV SYSTEM	x	x	x	x	x
AHA	26 - 33 kV System	x	x	x	x	x
AHB	34 - 35 kV System	x	x	x	x	x
AJ	17 - 25 kV SYSTEM	x	x	x	x	x
AJA	17 - 18 kV System	x	x	x	x	x
AJB	19 - 20 kV System	x	x	x	x	x
AJC	21 - 25 kV System	x	x	x	x	x
AK	6,7 - 16 kV SYSTEM	x	x	x	x	x
AKA	6,7 - 10,5 kV System	x	x	x	x	x
AKB	10,6 - 16 kV System	x	x	x	x	x
AL	3,4 - 6,6 kV SYSTEM	x	x	x	x	x
ALA	3,4 - 6,6 kV System	x	x	x	x	x
AM	1 - 3,3 kV SYSTEM	x	x	x	x	x
AMA	1 - 2,2 kV System	x	x	x	x	x
AMB	2,3 - 3,3 kV System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
AN	< 1 kV SYSTEM	x	x	x	x	x
ANA	Low Voltage Switchgear 500 V - 1 kV AC#	x	x	x	x	x
ANB	Low Voltage Switchgear 500 V - 1 kV AC#	x	x	x	x	x
ANC	Low Voltage Switchgear 500 V - 1 kV AC#	x	x	x	x	x
ANE	Low Voltage Switchgear 220/380 V AC#	x	x	x	x	x
ANF	Low Voltage Switchgear 220/380 V AC#	x	x	x	x	x
ANG	Low Voltage Switchgear 110 V AC#	x	x	x	x	x
ANH	Low Voltage Switchgear 110 V AC#	x	x	x	x	x
ANK	DC Switchgear 110/220 V	x	x	x	x	x
ANL	DC Switchgear 110/220 V	x	x	x	x	x
ANM	DC Switchgear 110/220 V	x	x	x	x	x
ANN	DC Switchgear 110/220 V	x	x	x	x	x
ANQ	DC Switchgear 48/60 V	x	x	x	x	x
ANR	DC Switchgear 48/60 V	x	x	x	x	x
ANS	DC Switchgear 48/60 V	x	x	x	x	x
ANU	DC Switchgear 12/24 V	x	x	x	x	x
ANV	DC Switchgear 12/24 V	x	x	x	x	x
ANW	DC Switchgear 12/24 V	x	x	x	x	x
AP	CONTROL DESK	x	x	x	x	x
APA	Control Desk	x	x	x	x	x
AQ	MEASURING AND METERING EQUIPMENT	x	x	x	x	x
AQA	Measurement Panel 400 kV	x	x	x	x	x
AQB	Measurement Panel 275 kV	x	x	x	x	x
AQC	Measurement Panel 132 kV	x	x	x	x	x
AQD	Measurement Panel 765 kV	x	x	x	x	x
AQE	Measurement Panel 88 kV	x	x	x	x	x
AR	PROTECTION EQUIPMENT	x	x	x	x	x
ARA	Protection Panel	x	x	x	x	x
ARB	Bus-zone Protection Panel	x	x	x	x	x
ARK	Line protection system	x	x	x	x	x
AS	DECENTRALIZED PANELS AND CUBICLES (FIELD EQUIPMENT)	x	x	x	x	x
ASA	Circuit Breaker Accessory	x	x	x	x	x
ASB	Multiplication, Conversion, Decoupling	x	x	x	x	x
ASC	Converter Accessory	x	x	x	x	x
ASD	Compressed Air, Hydraulic	x	x	x	x	x
ASJ	Automated Control, Closed Loop Control	x	x	x	x	x
ASL	Grid Simulation and Voltage Group Selection*	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
ASM	Measuring	x	x	x	x	x
ASN	Auxiliary Power Supply	x	x	x	x	x
ASP	Recording	x	x	x	x	x
ASQ	Metering	x	x	x	x	x
ASR	Protection	x	x	x	x	x
ASS	Synchronising	x	x	x	x	x
AST	Transforming	x	x	x	x	x
ASU	Panels and Cubicles for Auxiliary Equipment	x	x	x	x	x
ASV	Group Intermediate and General Terminal Block	x	x	x	x	x
ASW	Indication, Supervision, Operation and Equipment	x	x	x	x	x
ASX	Alarm Annunciation	x	x	x	x	x
AT	TRANSFORMER EQUIPMENT	x	x	x	x	x
ATA	Transformer > 400 kV	x	x	x	x	x
AU	CONTROL EQUIPMENT FOR OPEN LOOP CONTROL, FEEDBACK INDICATION AND AUXILIARY EQUIPMENT	x	x	x	x	x
AUA	System Control and Load Dispatch (SCALD)	x	x	x	x	x
AUB	Control Desk in Control Room	x	x	x	x	x
AUC	Control Panel in Control Room	x	x	x	x	x
AUD	PLC (Programmable logic Controller)	x	x	x	x	x
AUE	Local Control Panel and Desk	x	x	x	x	x
AUF	Equipment Room Cubicle	x	x	x	x	x
AUG	Junction Box	x	x	x	x	x
AUH	Measurement Rack	x	x	x	x	x
AUJ	Spare	x	x	x	x	x
AUK	DC Supply Including Associate Equipment	x	x	x	x	x
AUL	AC Supply and Distribution	x	x	x	x	x
AUQ	Computer Equipment	x	x	x	x	x
AUW	Common Equipment	x	x	x	x	x
AUX	Common Equipment	x	x	x	x	x
AV	MARSHALLING RACK (KIOSK)	x	x	x	x	x
AVA	Intermediate Distribution Frame	x	x	x	x	x
AW	INSTRUMENT PANEL	x	x	x	x	x
AWA	Instrument Panel	x	x	x	x	x
AX	CENTRALISED EQUIPMENT (E.G. PROCESS COMPUTER, HV YARD BUILDING)	x	x	x	x	x
AXB	Annunciator in HV Yard (Alarm Panel)	x	x	x	x	x
AXD	PLC (Programmable Logic Controller)	x	x	x	x	x
AY	TELECOMMUNICATION EQUIPMENT	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
AYA	Telephone System (PAX/PABX)	x	x	x	x	x
AYB	Telephone Control Console	x	x	x	x	x
AYC	Loudspeaker System (Tone Alarm Public Address)	x	x	x	x	x
AYD	Visual Signal System	x	x	x	x	x
AYE	Fire Alarm System	x	x	x	x	x
AYF	Clock System	x	x	x	x	x
AYG	Remote Supervisory System	x	x	x	x	x
AYH	Telemetering System	x	x	x	x	x
AYJ	Remote Metering System	x	x	x	x	x
AYK	HF Carrier Telephone System	x	x	x	x	x
AYL	Staff Paging System, Wireless*	x	x	x	x	x
AYM	Staff Paging System, Inductive*	x	x	x	x	x
AYN	Staff Paging System, Hardwired*	x	x	x	x	x
AYP	TV Supervisory Control System	x	x	x	x	x
AYQ	GAS alarm systems	x	x	x	x	x
AYS	Radio Network (VHF, UHF, SHF)	x	x	x	x	x
B	**POWER STATION ELECTRICAL POWER SYSTEM**	**x**	**x**	**x**	**x**	**x**
BA	GENERATOR POWER EXPORT SYSTEM	x	x	x	x	x
BAA	Generator Busbar System	x	x	x	x	x
BAB	Generator Foundation	x	x	x	x	x
BAC	Circuit Breaker (Generator breaker and phase reversing).	x	x	x	x	x
BAT	Generator Transformer,	x	x	x	x	x
BAU	Earthing equipment and lighting protection equipment			x		
BAW	Generator Earthing and Lightning Protection System	x	x	x	x	x
BAX	Control Air Supply	x	x	x	x	x
BAY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BB	MEDIUM VOLTAGE AUXILIARY POWER SYSTEM (> 11 kV)	x	x	x	x	x
BBA	Medium Voltage Distribution System	x	x	x	x	x
BBB	Medium Voltage Distribution System	x	x	x	x	x
BBC	Medium Voltage Distribution System	x	x	x	x	x
BBD	Medium Voltage Distribution System	x	x	x	x	x
BBE	Medium Voltage Distribution System	x	x	x	x	x
BBF	Medium Voltage Distribution System	x	x	x	x	x
BBG	Medium Voltage Distribution System	x	x	x	x	x
BBH	Medium Voltage Distribution System	x	x	x	x	x
BBJ	Medium Voltage Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BBK	Medium Voltage Distribution System	x	x	x	x	x
BBL	Medium Voltage Distribution System	x	x	x	x	x
BBM	Medium Voltage Distribution System	x	x	x	x	x
BBN	Medium Voltage Distribution System	x	x	x	x	x
BBP	Medium Voltage Distribution System	x	x	x	x	x
BBQ	Medium Voltage Distribution System	x	x	x	x	x
BBR	Medium Voltage Distribution System	x	x	x	x	x
BBS	Medium Voltage Distribution System	x	x	x	x	x
BBT	Medium Voltage Transformer	x	x	x	x	x
BBX	Control Medium Supply for Closed/Open Loop Control	x	x	x	x	x
BBY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BC	MEDIUM VOLTAGE AUXILIARY POWER SYSTEM (6,6 - < 11 kV)	x	x	x	x	x
BCA	Medium Voltage Distribution System	x	x	x	x	x
BCB	Medium Voltage Distribution System	x	x	x	x	x
BCC	Medium Voltage Distribution System	x	x	x	x	x
BCD	Medium Voltage Distribution System	x	x	x	x	x
BCE	Medium Voltage Distribution System	x	x	x	x	x
BCF	Medium Voltage Distribution System	x	x	x	x	x
BCG	Medium Voltage Distribution System	x	x	x	x	x
BCH	Medium Voltage Distribution System	x	x	x	x	x
BCJ	Medium Voltage Distribution System	x	x	x	x	x
BCK	Medium Voltage Distribution System	x	x	x	x	x
BCL	Medium Voltage Distribution System	x	x	x	x	x
BCM	Medium Voltage Distribution System	x	x	x	x	x
BCN	Medium Voltage Distribution System	x	x	x	x	x
BCP	Medium Voltage Distribution System	x	x	x	x	x
BCQ	Medium Voltage Distribution System	x	x	x	x	x
BCR	Medium Voltage Distribution System	x	x	x	x	x
BCS	Medium Voltage Distribution System	x	x	x	x	x
BCT	Medium Voltage Transformer	x	x	x	x	x
BCX	Control Medium Supply for Closed/Open Loop Control	x	x	x	x	x
BCY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BD	MEDIUM VOLTAGE AUXILIARY POWER SYSTEM (3,3 - < 6,6 kV)	x	x	x	x	x
BDA	Medium Voltage Distribution System	x	x	x	x	x
BDB	Medium Voltage Distribution System	x	x	x	x	x
BDC	Medium Voltage Distribution System	x	x	x	x	x
BDD	Medium Voltage Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BDE	Medium Voltage Distribution System	x	x	x	x	x
BDF	Medium Voltage Distribution System	x	x	x	x	x
BDG	Medium Voltage Distribution System	x	x	x	x	x
BDH	Medium Voltage Distribution System	x	x	x	x	x
BDJ	Medium Voltage Distribution System	x	x	x	x	x
BDK	Medium Voltage Distribution System	x	x	x	x	x
BDL	Medium Voltage Distribution System	x	x	x	x	x
BDM	Medium Voltage Distribution System	x	x	x	x	x
BDN	Medium Voltage Distribution System	x	x	x	x	x
BDP	Medium Voltage Distribution System	x	x	x	x	x
BDQ	Medium Voltage Distribution System	x	x	x	x	x
BDR	Medium Voltage Distribution System	x	x	x	x	x
BDS	Medium Voltage Distribution System	x	x	x	x	x
BDT	Medium Voltage Transformer	x	x	x	x	x
BDX	Control Medium Supply for Closed/Open Loop Control	x	x	x	x	x
BDY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BF	LOW VOLTAGE AUXILIARY POWER SYSTEM 1	x	x	x	x	x
BFA	Low Voltage Distribution System	x	x	x	x	x
BFB	Low Voltage Distribution System	x	x	x	x	x
BFC	Low Voltage Distribution System	x	x	x	x	x
BFD	Low Voltage Distribution System	x	x	x	x	x
BFE	Low Voltage Distribution System	x	x	x	x	x
BFF	Low Voltage Distribution System	x	x	x	x	x
BFG	Low Voltage Distribution System	x	x	x	x	x
BFH	Low Voltage Distribution System	x	x	x	x	x
BFJ	Low Voltage Distribution System	x	x	x	x	x
BFK	Low Voltage Distribution System	x	x	x	x	x
BFL	Low Voltage Distribution System	x	x	x	x	x
BFM	Low Voltage Distribution System	x	x	x	x	x
BFN	Low Voltage Distribution System	x	x	x	x	x
BFP	Low Voltage Distribution System	x	x	x	x	x
BFQ	Low Voltage Distribution System	x	x	x	x	x
BFR	Low Voltage Distribution System	x	x	x	x	x
BFS	Low Voltage Distribution System	x	x	x	x	x
BFT	Low Voltage Transformer	x	x	x	x	x
BFU	Low Voltage Transformer	x	x	x	x	x
BFV	Low Voltage Transformer	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BFW	Low Voltage Transformer	x	x	x	x	x
BFY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BG	LOW VOLTAGE DISTRIBUTION	x	x	x	x	x
BGA	Low Voltage Distribution System	x	x	x	x	x
BGB	Low Voltage Distribution System	x	x	x	x	x
BGE	Low Voltage Distribution System	x	x	x	x	x
BGF	Low Voltage Distribution System	x	x	x	x	x
BGG	Low Voltage Distribution System	x	x	x	x	x
BGH	Low Voltage Distribution System	x	x	x	x	x
BGK	Low Voltage Distribution System	x	x	x	x	x
BGL	Low Voltage Distribution System	x	x	x	x	x
BGM	Low Voltage Distribution System	x	x	x	x	x
BGN	Low Voltage Distribution System	x	x	x	x	x
BGP	Low Voltage Distribution System	x	x	x	x	x
BGQ	Low Voltage Distribution System	x	x	x	x	x
BGR	Low Voltage Distribution System	x	x	x	x	x
BGS	Low Voltage Distribution System	x	x	x	x	x
BGT	Low Voltage Transformer	x	x	x	x	x
BGU	Low Voltage Transformer	x	x	x	x	x
BH	LOW VOLTAGE AUXILIARY POWER SYSTEM 2	x	x	x	x	x
BHA	Low Voltage Distribution System	x	x	x	x	x
BHB	Low Voltage Distribution System	x	x	x	x	x
BHC	Low Voltage Distribution System	x	x	x	x	x
BHD	Low Voltage Distribution System	x	x	x	x	x
BHE	Low Voltage Distribution System	x	x	x	x	x
BHF	Low Voltage Distribution System	x	x	x	x	x
BHG	Low Voltage Distribution System	x	x	x	x	x
BHH	Low Voltage Distribution System	x	x	x	x	x
BHJ	Low Voltage Distribution System	x	x	x	x	x
BHK	Low Voltage Distribution System	x	x	x	x	x
BHL	Low Voltage Distribution System	x	x	x	x	x
BHM	Low Voltage Distribution System	x	x	x	x	x
BHN	Low Voltage Distribution System	x	x	x	x	x
BHP	Low Voltage Distribution System	x	x	x	x	x
BHQ	Low Voltage Distribution System	x	x	x	x	x
BHR	Low Voltage Distribution System	x	x	x	x	x
BHS	Low Voltage Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BHT	Low Voltage Transformer	x	x	x	x	x
BHU	Low Voltage Transformer	x	x	x	x	x
BHV	Low Voltage Transformer	x	x	x	x	x
BHW	Low Voltage Transformer	x	x	x	x	x
BHY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BJ	LOW VOLTAGE AUXILIARY POWER SYSTEM 3	x	x	x	x	x
BJA	Low Voltage Distribution System	x	x	x	x	x
BJB	Low Voltage Distribution System	x	x	x	x	x
BJC	Low Voltage Distribution System	x	x	x	x	x
BJD	Low Voltage Distribution System	x	x	x	x	x
BJE	Low Voltage Distribution System	x	x	x	x	x
BJF	Low Voltage Distribution System	x	x	x	x	x
BJG	Low Voltage Distribution System	x	x	x	x	x
BJH	Low Voltage Distribution System	x	x	x	x	x
BJJ	Low Voltage Distribution System	x	x	x	x	x
BJK	Low Voltage Distribution System	x	x	x	x	x
BJL	Low Voltage Distribution System	x	x	x	x	x
BJM	Low Voltage Distribution System	x	x	x	x	x
BJN	Low Voltage Distribution System	x	x	x	x	x
BJP	Low Voltage Distribution System	x	x	x	x	x
BJQ	Low Voltage Distribution System	x	x	x	x	x
BJR	Low Voltage Distribution System	x	x	x	x	x
BJS	Low Voltage Distribution System	x	x	x	x	x
BJT	Low Voltage Transformer	x	x	x	x	x
BJU	Low Voltage Transformer	x	x	x	x	x
BJY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	
BK	LOW VOLTAGE AUXILIARY POWER SYSTEM 4	x	x	x	x	
BKA	Low Voltage Distribution System	x	x	x	x	
BKB	Low Voltage Distribution System	x	x	x	x	
BKC	Low Voltage Distribution System	x	x	x	x	
BKD	Low Voltage Distribution System	x	x	x	x	
BKE	Low Voltage Distribution System	x	x	x	x	
BKF	Low Voltage Distribution System	x	x	x	x	
BKG	Low Voltage Distribution System	x	x	x	x	
BKH	Low Voltage Distribution System	x	x	x	x	
BKJ	Low Voltage Distribution System	x	x	x	x	
BKK	Low Voltage Distribution System	x	x	x	x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BKL	Low Voltage Distribution System	x	x	x	x	
BKM	Low Voltage Distribution System	x	x	x	x	
BKN	Low Voltage Distribution System	x	x	x	x	
BKP	Low Voltage Distribution System	x	x	x	x	
BKQ	Low Voltage Distribution System	x	x	x	x	
BKR	Low Voltage Distribution System	x	x	x	x	
BKS	Low Voltage Distribution System	x	x	x	x	
BKT	Low Voltage Transformer	x	x	x	x	
BKY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	
BL	LOW VOLTAGE AUXILIARY POWER SYSTEM (LIGHTING)	x	x	x	x	x
BLA	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLB	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLC	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLD	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLE	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLF	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLG	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLH	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLJ	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLK	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLL	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLM	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLN	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLP	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLQ	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLR	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLS	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLT	Low Voltage Transformer (Lighting)	x	x	x	x	x
BLU	Low Voltage Transformer (Lighting)	x	x	x	x	x
BLV	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLW	Low Voltage Distribution System (Lighting)	x	x	x	x	x
BLY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BM	EMERGENCY LOW VOLTAGE AUXILIARY POWER SYSTEM 1 (Diesel Generator Supply)	x	x	x	x	x
BMA	Emergency Low Voltage Distribution System	x	x	x	x	x
BMB	Emergency Low Voltage Distribution System	x	x	x	x	x
BMC	Emergency Low Voltage Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BMD	Emergency Low Voltage Distribution System	x	x	x	x	x
BME	Emergency Low Voltage Distribution System	x	x	x	x	x
BMF	Emergency Low Voltage Distribution System	x	x	x	x	x
BMG	Emergency Low Voltage Distribution System	x	x	x	x	x
BMH	Emergency Low Voltage Distribution System	x	x	x	x	x
BMJ	Emergency Low Voltage Distribution System	x	x	x	x	x
BMK	Emergency Low Voltage Distribution System	x	x	x	x	x
BML	Emergency Low Voltage Distribution System	x	x	x	x	x
BMM	Emergency Low Voltage Distribution System	x	x	x	x	x
BMN	Emergency Low Voltage Distribution System	x	x	x	x	x
BMP	Emergency Low Voltage Distribution System	x	x	x	x	x
BMQ	Emergency Low Voltage Distribution System	x	x	x	x	x
BMR	Emergency Low Voltage Distribution System	x	x	x	x	x
BMS	Emergency Low Voltage Distribution System	x	x	x	x	x
BMT	Emergency Low Voltage Transformer	x	x	x	x	x
BMU	Emergency Low Voltage Transformer	x	x	x	x	x
BMV	Emergency Low Voltage Transformer	x	x	x	x	x
BMW	Emergency Low Voltage Transformer	x	x	x	x	x
BMY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BN	EMERGENCY LOW VOLTAGE AUXILIARY POWER SYSTEM 2	x	x	x	x	x
BNA	Emergency Low Voltage Distribution System	x	x	x	x	x
BNB	Emergency Low Voltage Distribution System	x	x	x	x	x
BNC	Emergency Low Voltage Distribution System	x	x	x	x	x
BND	Emergency Low Voltage Distribution System	x	x	x	x	x
BNE	Emergency Low Voltage Distribution System	x	x	x	x	x
BNF	Emergency Low Voltage Distribution System	x	x	x	x	x
BNG	Emergency Low Voltage Distribution System	x	x	x	x	x
BNH	Emergency Low Voltage Distribution System	x	x	x	x	x
BNJ	Emergency Low Voltage Distribution System	x	x	x	x	x
BNK	Emergency Low Voltage Distribution System	x	x	x	x	x
BNL	Emergency Low Voltage Distribution System	x	x	x	x	x
BNM	Emergency Low Voltage Distribution System	x	x	x	x	x
BNN	Emergency Low Voltage Distribution System	x	x	x	x	x
BNP	Emergency Low Voltage Distribution System	x	x	x	x	x
BNQ	Emergency Low Voltage Distribution System	x	x	x	x	x
BNR	Emergency Low Voltage Distribution System	x	x	x	x	x
BNS	Emergency Low Voltage Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BNT	Emergency Low Voltage Transformer	x	x	x	x	x
BNU	Emergency Low Voltage Transformer	x	x	x	x	x
BNV	Emergency Low Voltage Transformer	x	x	x	x	x
BNW	Emergency Low Voltage Transformer	x	x	x	x	x
BNY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BP	HEAVY CURRENT EQUIPMENT FOR LARGE VARIABLE SPEED DRIVES	x	x	x	x	x
BPA	Heavy current equipment for variable speed drive on boiler feed pump	x			x	
BPB	Heavy current equipment for variable speed drive on coal plant	x				
BPC	Heavy current equipment for variable speed drive on ash plant	x				
BPD	Heavy current equipment for variable speed drive on main cooling plant	x	x		x	
BPE	Heavy current equipment for variable speed drive in LP services	x	x	x	x	x
BPF	Heavy current equipment for large variable speed drive frequency convertor	x	x	x	x	x
BPT	SFC Transformer	x	x	x	x	x
BPX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
BPY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BR	LOW VOLTAGE AUXILIARY POWER SYSTEM (CONVERTER, INVERTER)	x	x	x	x	x
BRA	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRB	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRC	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRD	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRE	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRF	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRG	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRH	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRJ	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRK	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRL	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRM	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRN	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRP	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRQ	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRR	Low Voltage Distribution System (Converter, Inverter)	x	x	x	x	x
BRS	Low Voltage Distribution System (UPS)	x	x	x	x	x
BRT	Converter (Rotating)	x	x	x	x	x
BRU	Converter (Static), Inverter	x	x	x	x	x
BRV	Emergency Power Generation Equipment	x	x	x	x	x
BRY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BT	DC GENERATION EQUIPMENT (BATTERY AND CHARGER)	x	x	x	x	x
BTA	Battery	x	x	x	x	x
BTB	Battery	x	x	x	x	x
BTC	Battery	x	x	x	x	x
BTD	Battery	x	x	x	x	x
BTE	Battery	x	x	x	x	x
BTF	Battery	x	x	x	x	x
BTG	Battery	x	x	x	x	x
BTH	Battery	x	x	x	x	x
BTJ	Battery	x	x	x	x	x
BTK	Battery	x	x	x	x	x
BTL	Battery Charger	x	x	x	x	x
BTM	Battery Charger	x	x	x	x	x
BTN	Battery Charger	x	x	x	x	x
BTP	Battery Charger	x	x	x	x	x
BTQ	Battery Charger	x	x	x	x	x
BTR	Battery Charger	x	x	x	x	x
BTS	Battery Charger	x	x	x	x	x
BTT	Battery Charger	x	x	x	x	x
BTU	Battery Charger	x	x	x	x	x
BTV	Battery Charger	x	x	x	x	x
BTW	Uninterruptable Power Supply	x	x	x	x	x
BTX	Common Equipment	x	x	x	x	x
BTY	Common Equipment	x	x	x	x	x
BTZ	Common Equipment	x	x	x	x	x
BU	DC DISTRIBUTION SYSTEM	x	x	x	x	x
BUA	DC Distribution System	x	x	x	x	x
BUB	DC Distribution System	x	x	x	x	x
BUC	DC Distribution System	x	x	x	x	x
BUD	DC Distribution System	x	x	x	x	x
BUE	DC Distribution System	x	x	x	x	x
BUF	DC Distribution System	x	x	x	x	x
BUG	DC Distribution System	x	x	x	x	x
BUH	DC Distribution System	x	x	x	x	x
BUJ	DC Distribution System	x	x	x	x	x
BUK	DC Distribution System	x	x	x	x	x
BUL	DC Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BUM	DC Distribution System	x	x	x	x	x
BUN	DC Distribution System	x	x	x	x	x
BUP	DC Distribution System	x	x	x	x	x
BUQ	DC Distribution System	x	x	x	x	x
BUR	DC Distribution System	x	x	x	x	x
BUS	DC Distribution System	x	x	x	x	x
BUY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BV	DC EMERGENCY DISTRIBUTION SYSTEM 1	x	x	x	x	x
BVA	DC Emergency Distribution System	x	x	x	x	x
BVB	DC Emergency Distribution System	x	x	x	x	x
BVC	DC Emergency Distribution System	x	x	x	x	x
BVD	DC Emergency Distribution System	x	x	x	x	x
BVE	DC Emergency Distribution System	x	x	x	x	x
BVF	DC Emergency Distribution System	x	x	x	x	x
BVG	DC Emergency Distribution System	x	x	x	x	x
BVH	DC Emergency Distribution System	x	x	x	x	x
BVJ	DC Emergency Distribution System	x	x	x	x	x
BVK	DC Emergency Distribution System	x	x	x	x	x
BVL	DC Emergency Distribution System	x	x	x	x	x
BVM	DC Emergency Distribution System	x	x	x	x	x
BVN	DC Emergency Distribution System	x	x	x	x	x
BVP	DC Emergency Distribution System	x	x	x	x	x
BVQ	DC Emergency Distribution System	x	x	x	x	x
BVR	DC Emergency Distribution System	x	x	x	x	x
BVS	DC Emergency Distribution System	x	x	x	x	x
BVY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BW	DC EMERGENCY DISTRIBUTION SYSTEM 2	x	x	x	x	x
BWA	DC Emergency Distribution System	x	x	x	x	x
BWB	DC Emergency Distribution System	x	x	x	x	x
BWC	DC Emergency Distribution System	x	x	x	x	x
BWD	DC Emergency Distribution System	x	x	x	x	x
BWE	DC Emergency Distribution System	x	x	x	x	x
BWF	DC Emergency Distribution System	x	x	x	x	x
BWG	DC Emergency Distribution System	x	x	x	x	x
BWH	DC Emergency Distribution System	x	x	x	x	x
BWJ	DC Emergency Distribution System	x	x	x	x	x
BWK	DC Emergency Distribution System	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
BWL	DC Emergency Distribution System	x	x	x	x	x
BWM	DC Emergency Distribution System	x	x	x	x	x
BWN	DC Emergency Distribution System	x	x	x	x	x
BWP	DC Emergency Distribution System	x	x	x	x	x
BWQ	DC Emergency Distribution System	x	x	x	x	x
BWR	DC Emergency Distribution System	x	x	x	x	x
BWS	DC Emergency Distribution System	x	x	x	x	x
BWY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BX	CONTROL MEDIUM SUPPLY FOR CLOSED/OPEN LOOP	x	x	x	x	x
BXY	Closed/Open Loop Control and Protection Equipment	x	x	x	x	x
BY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x	x	x	x	x
BYA	Analog Measurement Panel	x	x	x	x	x
BYB	Local Alarm Panel	x	x	x	x	x
BYC	Station Distribution Frame	x	x	x	x	x
BYD	Spare - These are available for PLC electrical, electronic	x	x	x	x	x
BYE	Spare - These are available for PLC electrical, electronic	x	x	x	x	x
BYF	Spare - These are available for PLC electrical, electronic	x	x	x	x	x
BYG	Marshalling Panel	x	x	x	x	x
BYH	Measurement	x	x	x	x	x
BYJ	Local Control/Panel	x	x	x	x	x
BYK	DC Supply including Associated Equipment	x	x	x	x	x
BYL	AC Supply and Distribution	x	x	x	x	x
BYQ	Computer Equipment	x	x	x	x	x
BYW	Common Equipment	x	x	x	x	x
BYX	Common Equipment	x	x	x	x	x
BYY	Common Equipment	x	x	x	x	x
BYZ	Common Equipment	x	x	x	x	x
C	**CONTROL AND INSTRUMENTATION EQUIPMENT#**	**x**	**x**	**x**	**x**	**x**
CA	PROTECTION INTERLOCKING	x	x	x	x	x
CAA	Protection Interlocking Cabinet A	x	x	x	x	x
CAB	Protection Interlocking Cabinet B	x	x	x	x	x
CAC	Protection Interlocking Cabinet C	x	x	x	x	x
CAD	Protection Interlocking Cabinet D	x	x	x	x	x
CAE	Protection Interlocking Cabinet E	x	x	x	x	x
CAF	Protection Interlocking Cabinet F	x	x	x	x	x
CAG	Protection Interlocking Cabinet G	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CAH	Protection Interlocking Cabinet H	x	x	x	x	x
CAJ	Protection Interlocking Cabinet J	x	x	x	x	x
CAK	Protection Interlocking Cabinet K	x	x	x	x	x
CAL	Protection Interlocking Cabinet L	x	x	x	x	x
CAM	Protection Interlocking Cabinet M	x	x	x	x	x
CAN	Protection Interlocking Cabinet N	x	x	x	x	x
CAP	Protection Interlocking Cabinet P	x	x	x	x	x
CAQ	Protection Interlocking Cabinet Q	x	x	x	x	x
CB	FUNCTIONAL GROUP CONTROL, PARTIAL CONTROL	x	x	x	x	x
CBA	Functional Group Control Cabinet A	x	x	x	x	x
CBB	Functional Group Control Cabinet B	x	x	x	x	x
CBC	Functional Group Control Cabinet C	x	x	x	x	x
CBD	Functional Group Control Cabinet D	x	x	x	x	x
CBE	Functional Group Control Cabinet E	x	x	x	x	x
CBF	Functional Group Control Cabinet F	x	x	x	x	x
CBG	Functional Group Control Cabinet G	x	x	x	x	x
CBH	Functional Group Control Cabinet H	x	x	x	x	x
CBJ	Functional Group Control Cabinet J	x	x	x	x	x
CBK	Functional Group Control Cabinet K	x	x	x	x	x
CBL	Functional Group Control Cabinet L	x	x	x	x	x
CBM	Functional Group Control Cabinet M	x	x	x	x	x
CBN	Functional Group Control Cabinet N	x	x	x	x	x
CBP	Synchronising Cabinet	x	x	x	x	x
CBQ	Auxiliary Power Supply Change-over System Cabinet	x	x	x	x	x
CC	BINARY SIGNAL CONDITIONING	x	x	x	x	x
CCA	Binary Signal Conditioning Cabinet A	x	x	x	x	x
CCB	Binary Signal Conditioning Cabinet B	x	x	x	x	x
CCC	Binary Signal Conditioning Cabinet C	x	x	x	x	x
CCD	Binary Signal Conditioning Cabinet D	x	x	x	x	x
CCE	Binary Signal Conditioning Cabinet E	x	x	x	x	x
CCF	Binary Signal Conditioning Cabinet F	x	x	x	x	x
CCG	Binary Signal Conditioning Cabinet G	x	x	x	x	x
CCH	Binary Signal Conditioning Cabinet H	x	x	x	x	x
CCJ	Binary Signal Conditioning Cabinet J	x	x	x	x	x
CCK	Binary Signal Conditioning Cabinet K	x	x	x	x	x
CCL	Binary Signal Conditioning Cabinet L	x	x	x	x	x
CCM	Binary Signal Conditioning Cabinet M	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CCN	Binary Signal Conditioning Cabinet N	x	x	x	x	x
CCP	Binary Signal Conditioning Cabinet P	x	x	x	x	x
CCQ	Binary Signal Conditioning Cabinet Q	x	x	x	x	x
CD	DRIVE CONTROL INTERFACE	x	x	x	x	x
CDA	Drive Control Cabinet A	x	x	x	x	x
CDB	Drive Control Cabinet B	x	x	x	x	x
CDC	Drive Control Cabinet C	x	x	x	x	x
CDD	Drive Control Cabinet D	x	x	x	x	x
CDE	Drive Control Cabinet E	x	x	x	x	x
CDF	Drive Control Cabinet F	x	x	x	x	x
CDG	Drive Control Cabinet G	x	x	x	x	x
CDH	Drive Control Cabinet H	x	x	x	x	x
CDJ	Drive Control Cabinet J	x	x	x	x	x
CDK	Drive Control Cabinet K	x	x	x	x	x
CDL	Drive Control Cabinet L	x	x	x	x	x
CDM	Drive Control Cabinet M	x	x	x	x	x
CDN	Drive Control Cabinet N	x	x	x	x	x
CDP	Drive Control Cabinet P	x	x	x	x	x
CDQ	Drive Control Cabinet Q	x	x	x	x	x
CE	ALARM SYSTEM	x	x	x	x	x
CEA	Annunciation Cabinet A	x	x	x	x	x
CEB	Annunciation Cabinet B	x	x	x	x	x
CEC	Annunciation Cabinet C	x	x	x	x	x
CED	Annunciation Cabinet D	x	x	x	x	x
CEE	Annunciation Cabinet E	x	x	x	x	x
CEF	Annunciation Cabinet F	x	x	x	x	x
CEG	Annunciation Cabinet G	x	x	x	x	x
CEH	Annunciation Cabinet H	x	x	x	x	x
CEJ	Fault Registration A	x	x	x	x	x
CEK	Fault Registration B	x	x	x	x	x
CEL	Fault Registration C	x	x	x	x	x
CEM	Fault Registration D	x	x	x	x	x
CEN	Fault Registration E	x	x	x	x	x
CEP	Fault Registration F	x	x	x	x	x
CEQ	Fault Registration G	x	x	x	x	x
CF	MEASUREMENT, REGISTRATION, RECORDING	x	x	x	x	x
CFA	Measurement Cabinet A	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CFB	Measurement Cabinet B	x	x	x	x	x
CFC	Measurement Cabinet C	x	x	x	x	x
CFD	Measurement Cabinet D	x	x	x	x	x
CFE	Measurement Cabinet E	x	x	x	x	x
CFF	Measurement Cabinet F	x	x	x	x	x
CFG	Reactor Measurement Cabinet A				x	
CFH	Reactor Measurement Cabinet B				x	
CFJ	Reactor Measurement Cabinet C				x	
CFK	Reactor Measurement Cabinet D				x	
CFL	Radiation Measurement Cabinet A				x	
CFM	Radiation Measurement Cabinet B				x	
CFN	Radiation Measurement Cabinet C				x	
CFP	Radiation Measurement Cabinet D				x	
CFQ	Registration Recording Cabinet (Counter, Printer, etc.)	x	x	x	x	x
CG	CLOSED LOOP CONTROL	x	x	x	x	x
CGA	Closed Loop Control Cabinet	x	x	x	x	x
CGB	Closed Loop Control Cabinet	x	x	x	x	x
CGC	Closed Loop Control Cabinet	x	x	x	x	x
CGD	Closed Loop Control Cabinet	x	x	x	x	x
CGE	Closed Loop Control Cabinet	x	x	x	x	x
CGF	Closed Loop Control Cabinet	x	x	x	x	x
CGG	Closed Loop Control Cabinet	x	x	x	x	x
CGH	Closed Loop Control Cabinet	x	x	x	x	x
CGJ	Cabinets for reactor control				x	
CGK	Cabinets for reactor control				x	
CGL	Cabinets for reactor control				x	
CGM	Cabinets for reactor control				x	
CGN	Cabinets for reactor control				x	
CGP	Cabinets for reactor control				x	
CGQ	Cabinets for reactor control				x	
CGR	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGS	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGT	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGU	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGV	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGW	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CGX	Closed Loop Control Cabinet in secured area of nuclear plant				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CGY	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CH	PROTECTION	x	x	x		x
CHA	Cabinets for Generator and Transformer Protection	x	x	x		x
CHB	Cabinets for Generator and Transformer Protection	x	x	x		x
CHC	Cabinets for Generator and Transformer Protection	x	x	x		x
CHD	Cabinets for Generator and Transformer Protection	x	x	x		x
CHE	Mechanical Equipment Protection Cabinet	x	x	x		x
CHF	Mechanical Equipment Protection Cabinet	x	x	x		x
CHG	Mechanical Equipment Protection Cabinet	x	x	x		x
CHH	Mechanical Equipment Protection Cabinet	x	x	x		x
CHJ	Mechanical Equipment Protection Cabinet	x	x	x		x
CHK	Mechanical Equipment Protection Cabinet	x	x	x		x
CHL	Mechanical Equipment Protection Cabinet	x	x	x		x
CHM	Mechanical Equipment Protection Cabinet	x	x	x		x
CHN	Mechanical Equipment Protection Cabinet	x	x	x		x
CHP	Mechanical Equipment Protection Cabinet	x	x	x		x
CHQ	Mechanical Equipment Protection Cabinet	x	x	x		x
CHR	Mechanical Equipment Protection Cabinet	x	x	x		x
CHS	Mechanical Equipment Protection Cabinet	x	x	x		x
CHT	Mechanical Equipment Protection Cabinet	x	x	x		x
CHU	Mechanical Equipment Protection Cabinet	x	x	x		x
CHV	Mechanical Equipment Protection Cabinet	x	x	x		x
CHW	Mechanical Equipment Protection Cabinet	x	x	x		x
CHX	Mechanical Equipment Protection Cabinet	x	x	x		x
CHY	Mechanical Equipment Protection Cabinet	x	x	x		x
CJ	UNIT CO-ORDINATION LEVEL	x	x	x		x
CJA	Unit Co-ordination System (Including Cabinet)	x	x	x		x
CJD	Start-up Control, Set point Formation (Unit Related) (Including cabinet)	x	x	x		x
CJF	Boiler Master Control System (Including Cabinet)	x				
CJJ	Steam Turbine Set Master Control Cabinet A	x				
CJK	Steam Turbine Set Master Control Cabinet B	x				
CJL	Steam Turbine Set Master Control Cabinet C	x				
CJM	Steam Turbine Set Master Control Cabinet D	x				
CJN	Steam Turbine Set Master Control Cabinet E	x				
CJP	Gas Turbine Master Control Cabinet A		x			
CJQ	Gas Turbine Master Control Cabinet B		x			
CJR	Gas Turbine Master Control Cabinet C		x			

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CJS	Gas Turbine Master Control Cabinet D		x			
CJT	Gas Turbine Master Control Cabinet E		x			
CJU	Main and Large Machine Master Control Cabinet A	x	x	x	x	x
CJV	Main and Large Machine Master Control Cabinet B	x	x	x	x	x
CJW	Main and Large Machine Master Control Cabinet C	x	x	x	x	x
CJX	Main and Large Machine Master Control Cabinet D	x	x	x	x	x
CJY	Main and Large Machine Master Control Cabinet E	x	x	x	x	x
CK	PROCESS COMPUTER SYSTEM	x	x	x	x	x
CKA	Online supervisory and diagnostic computer	x	x	x	x	x
CKB	Online supervisory and diagnostic computer	x	x	x	x	x
CKC	Online supervisory and diagnostic computer	x	x	x	x	x
CKD	Online supervisory and diagnostic computer	x	x	x	x	x
CKE	Online supervisory and diagnostic computer	x	x	x	x	x
CKF	Online supervisory and diagnostic computer	x	x	x	x	x
CKG	Online supervisory and diagnostic computer	x	x	x	x	x
CKH	Online supervisory and diagnostic computer	x	x	x	x	x
CKJ	Access Control Computer	x	x	x	x	x
CKK	Access Control Computer	x	x	x	x	x
CKL	Access Control Computer	x	x	x	x	x
CKM	Access Control Computer	x	x	x	x	x
CKN	Access Control Computer	x	x	x	x	x
CKP	Access Control Computer	x	x	x	x	x
CKQ	Access Control Computer	x	x	x	x	x
CKR	Access Control Computer	x	x	x	x	x
CKS	Access Control Computer	x	x	x	x	x
CKT	Access Control Computer	x	x	x	x	x
CKU	Access Control Computer	x	x	x	x	x
CKV	Access Control Computer	x	x	x	x	x
CKW	Access Control Computer	x	x	x	x	x
CKX	Access Control Computer	x	x	x	x	x
CKY	Access Control Computer	x	x	x	x	x
CKZ	Access Control Computer	x	x	x	x	x
CL	REACTOR PROTECTION				x	
CLA	Reactor protection				x	
CLB	Reactor protection				x	
CLC	Reactor protection				x	
CLD	Reactor protection				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CLE	Reactor protection				x	
CLF	Reactor protection				x	
CLG	Reactor protection				x	
CLH	Reactor protection				x	
CLJ	Reactor protection				x	
CLK	Reactor protection				x	
CLL	Reactor protection				x	
CLM	Reactor protection				x	
CLN	Reactor protection				x	
CLP	Reactor protection				x	
CLQ	Reactor protection				x	
CLR	Reactor protection				x	
CLS	Reactor protection				x	
CLT	Reactor protection				x	
CLU	Reactor protection				x	
CLV	Reactor protection				x	
CLW	Reactor protection				x	
CLX	Reactor protection				x	
CLY	Reactor protection				x	
CLZ	Reactor protection				x	
CM	CONTROL AND INSTRUMENT EQUIPMENT	x	x	x	x	x
CMA	Control and Instrumentation equipment	x	x	x	x	x
CMB	Control and Instrumentation equipment	x	x	x	x	x
CMC	Control and Instrumentation equipment	x	x	x	x	x
CME	Control and Instrumentation equipment	x	x	x	x	x
CMF	Control and Instrumentation equipment	x	x	x	x	x
CMG	Control and Instrumentation equipment	x	x	x	x	x
CMH	Control and Instrumentation equipment	x	x	x	x	x
CMJ	Control and Instrumentation equipment	x	x	x	x	x
CMK	Control and Instrumentation equipment	x	x	x	x	x
CML	Control and Instrumentation equipment	x	x	x	x	x
CMM	Control and Instrumentation equipment	x	x	x	x	x
CMN	Control and Instrumentation equipment	x	x	x	x	x
CMP	Control and Instrumentation equipment	x	x	x	x	x
CMQ	Control and Instrumentation equipment	x	x	x	x	x
CMR	Control and Instrumentation equipment	x	x	x	x	x
CMS	Control and Instrumentation equipment	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CMT	Control and Instrumentation equipment	x	x	x	x	x
CMU	Control and Instrumentation equipment	x	x	x	x	x
CMV	Control and Instrumentation equipment	x	x	x	x	x
CMW	Control and Instrumentation equipment	x	x	x	x	x
CMX	Control and Instrumentation equipment	x	x	x	x	x
CMY	Control and Instrumentation equipment	x	x	x	x	x
CMZ	Control and Instrumentation equipment	x	x	x	x	x
CN	CONTROL AND INSTRUMENT EQUIPMENT	x	x	x	x	x
CNA	Control and Instrumentation equipment	x	x	x	x	x
CNB	Control and Instrumentation equipment	x	x	x	x	x
CNC	Control and Instrumentation equipment	x	x	x	x	x
CNE	Control and Instrumentation equipment	x	x	x	x	x
CNF	Control and Instrumentation equipment	x	x	x	x	x
CNG	Control and Instrumentation equipment	x	x	x	x	x
CNH	Control and Instrumentation equipment	x	x	x	x	x
CNJ	Control and Instrumentation equipment	x	x	x	x	x
CNK	Control and Instrumentation equipment	x	x	x	x	x
CNL	Control and Instrumentation equipment	x	x	x	x	x
CNM	Control and Instrumentation equipment	x	x	x	x	x
CNN	Control and Instrumentation equipment	x	x	x	x	x
CNP	Control and Instrumentation equipment	x	x	x	x	x
CNQ	Control and Instrumentation equipment	x	x	x	x	x
CNR	Control and Instrumentation equipment	x	x	x	x	x
CNS	Control and Instrumentation equipment	x	x	x	x	x
CNT	Control and Instrumentation equipment	x	x	x	x	x
CNU	Control and Instrumentation equipment	x	x	x	x	x
CNV	Control and Instrumentation equipment	x	x	x	x	x
CNW	Control and Instrumentation equipment	x	x	x	x	x
CNX	Control and Instrumentation equipment	x	x	x	x	x
CNY	Control and Instrumentation equipment	x	x	x	x	x
CNZ	Control and Instrumentation equipment	x	x	x	x	x
CP	SEPARATE AUTOMATION SYSTEM	x				x
CPA	Separate automation system	x	x	x	x	x
CPB	Separate automation system	x	x	x	x	x
CPC	Separate automation system	x	x	x	x	x
CPE	Separate automation system	x	x	x	x	x
CPF	Separate automation system	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CPG	Separate automation system	x	x	x	x	x
CPH	Separate automation system	x	x	x	x	x
CPJ	Separate automation system	x	x	x	x	x
CPK	Separate automation system	x	x	x	x	x
CPL	Separate automation system	x	x	x	x	x
CPM	Separate automation system	x	x	x	x	x
CPN	Separate automation system	x	x	x	x	x
CPP	Separate automation system	x	x	x	x	x
CPQ	Separate automation system	x	x	x	x	x
CPR	Separate automation system	x	x	x	x	x
CPS	Separate automation system	x	x	x	x	x
CPT	Separate automation system	x	x	x	x	x
CPU	Separate automation system	x	x	x	x	x
CPV	Separate automation system	x	x	x	x	x
CPW	Separate automation system	x	x	x	x	x
CPX	Separate automation system	x	x	x	x	x
CPY	Separate automation system	x	x	x	x	x
CPZ	Separate automation system	x	x	x	x	x
CQ	CONTROL AND INSTRUMENT EQUIPMENT					
CQA	Control and Instrumentation equipment	x	x	x	x	x
CQB	Control and Instrumentation equipment	x	x	x	x	x
CQC	Control and Instrumentation equipment	x	x	x	x	x
CQE	Control and Instrumentation equipment	x	x	x	x	x
CQF	Control and Instrumentation equipment	x	x	x	x	x
CQG	Control and Instrumentation equipment	x	x	x	x	x
CQH	Control and Instrumentation equipment	x	x	x	x	x
CQJ	Control and Instrumentation equipment	x	x	x	x	x
CQK	Control and Instrumentation equipment	x	x	x	x	x
CQL	Control and Instrumentation equipment	x	x	x	x	x
CQM	Control and Instrumentation equipment	x	x	x	x	x
CQN	Control and Instrumentation equipment	x	x	x	x	x
CQP	Control and Instrumentation equipment	x	x	x	x	x
CQQ	Control and Instrumentation equipment	x	x	x	x	x
CQR	Control and Instrumentation equipment	x	x	x	x	x
CQS	Control and Instrumentation equipment	x	x	x	x	x
CQT	Control and Instrumentation equipment	x	x	x	x	x
CQU	Control and Instrumentation equipment	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CQV	Control and Instrumentation equipment	x	x	x	x	x
CQW	Control and Instrumentation equipment	x	x	x	x	x
CQX	Control and Instrumentation equipment	x	x	x	x	x
CQY	Control and Instrumentation equipment	x	x	x	x	x
CQZ	Control and Instrumentation equipment	x	x	x	x	x
CR	PROCESS CONTROL SYSTEM	x	x	x	x	x
CRA	Automation system, non-fail-safe	x	x	x	x	x
CRB	Automation system, non-fail-safe	x	x	x	x	x
CRC	Automation system, non-fail-safe	x	x	x	x	x
CRD	Automation system, non-fail-safe	x	x	x	x	x
CRE	Automation system, non-fail-safe	x	x	x	x	x
CRF	Automation system, non-fail-safe	x	x	x	x	x
CRG	Automation system, non-fail-safe	x	x	x	x	x
CRH	Automation system, non-fail-safe	x	x	x	x	x
CRJ	Automation system, fail-safe	x	x	x	x	x
CRK	Automation system, high-availability	x	x	x	x	x
CRL	Enclosure (e.g. cabinet)	x	x	x	x	x
CRM	Enclosure (e.g. local box)	x	x	x	x	x
CRN	Process control system	x	x	x	x	x
CRP	Process control system	x	x	x	x	x
CRQ	Process control system	x	x	x	x	x
CRR	Communication system (e.g. terminal bus)	x	x	x	x	x
CRS	Communication system (e.g. plant bus)	x	x	x	x	x
CRT	Communication system (e.g. field bus)	x	x	x	x	x
CRU	Operation and monitoring	x	x	x	x	x
CRV	Engineering system	x	x	x	x	x
CRW	Control system diagnostics	x	x	x	x	x
CRX	Process optimisation	x	x	x	x	x
CRY	Process control system	x	x	x	x	x
CRY	Process control system	x	x	x	x	x
CS	CONTROL AND INSTRUMENT EQUIPMENT	x	x	x	x	x
CSA	Control and Instrumentation equipment	x	x	x	x	x
CSB	Control and Instrumentation equipment	x	x	x	x	x
CSC	Control and Instrumentation equipment	x	x	x	x	x
CSE	Control and Instrumentation equipment	x	x	x	x	x
CSF	Control and Instrumentation equipment	x	x	x	x	x
CSG	Control and Instrumentation equipment	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CSH	Control and Instrumentation equipment	x	x	x	x	x
CSJ	Control and Instrumentation equipment	x	x	x	x	x
CSK	Control and Instrumentation equipment	x	x	x	x	x
CSL	Control and Instrumentation equipment	x	x	x	x	x
CSM	Control and Instrumentation equipment	x	x	x	x	x
CSN	Control and Instrumentation equipment	x	x	x	x	x
CSP	Control and Instrumentation equipment	x	x	x	x	x
CSQ	Control and Instrumentation equipment	x	x	x	x	x
CSR	Control and Instrumentation equipment	x	x	x	x	x
CSS	Control and Instrumentation equipment	x	x	x	x	x
CST	Control and Instrumentation equipment	x	x	x	x	x
CSU	Control and Instrumentation equipment	x	x	x	x	x
CSV	Control and Instrumentation equipment	x	x	x	x	x
CSW	Control and Instrumentation equipment	x	x	x	x	x
CSX	Control and Instrumentation equipment	x	x	x	x	x
CSY	Control and Instrumentation equipment	x	x	x	x	x
CSZ	Control and Instrumentation equipment	x	x	x	x	x
CT	CONTROL AND INSTRUMENT EQUIPMENT	x	x	x	x	x
CTA	Control and Instrumentation equipment	x	x	x	x	x
CTB	Control and Instrumentation equipment	x	x	x	x	x
CTC	Control and Instrumentation equipment	x	x	x	x	x
CTE	Control and Instrumentation equipment	x	x	x	x	x
CTF	Control and Instrumentation equipment	x	x	x	x	x
CTG	Control and Instrumentation equipment	x	x	x	x	x
CTH	Control and Instrumentation equipment	x	x	x	x	x
CTJ	Control and Instrumentation equipment	x	x	x	x	x
CTK	Control and Instrumentation equipment	x	x	x	x	x
CTL	Control and Instrumentation equipment	x	x	x	x	x
CTM	Control and Instrumentation equipment	x	x	x	x	x
CTN	Control and Instrumentation equipment	x	x	x	x	x
CTP	Control and Instrumentation equipment	x	x	x	x	x
CTQ	Control and Instrumentation equipment	x	x	x	x	x
CTR	Control and Instrumentation equipment	x	x	x	x	x
CTS	Control and Instrumentation equipment	x	x	x	x	x
CTT	Control and Instrumentation equipment	x	x	x	x	x
CTU	Control and Instrumentation equipment	x	x	x	x	x
CTV	Control and Instrumentation equipment	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CTW	Control and Instrumentation equipment	x	x	x	x	x
CTX	Control and Instrumentation equipment	x	x	x	x	x
CTY	Control and Instrumentation equipment	x	x	x	x	x
CTZ	Control and Instrumentation equipment	x	x	x	x	x
CU	CLOSED LOOP CONTROL (POWER PART/CORRECTING UNIT)	x	x	x	x	x
CUA	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUB	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUC	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUD	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUE	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUF	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUG	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUH	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUJ	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUK	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUL	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUM	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUN	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUP	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUQ	Cabinet for Closed Loop Control (Power Parts)	x	x	x	x	x
CUR	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUS	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUT	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUU	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUV	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUX	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CUY	Closed Loop Control Cabinet in secured area of nuclear plant				x	
CV	MARSHALLING RACKS	x	x	x	x	x
CVA	Marshalling racks	x	x	x	x	x
CVB	Marshalling racks	x	x	x	x	x
CVC	Marshalling racks	x	x	x	x	x
CVD	Marshalling racks	x	x	x	x	x
CVE	Marshalling racks	x	x	x	x	x
CVF	Marshalling racks	x	x	x	x	x
CVG	Marshalling racks	x	x	x	x	x
CVH	Marshalling racks	x	x	x	x	x
CVJ	Marshalling racks	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CVK	Marshalling racks	x	x	x	x	x
CVL	Marshalling racks	x	x	x	x	x
CVM	Marshalling racks	x	x	x	x	x
CVN	Marshalling racks	x	x	x	x	x
CVP	Marshalling racks	x	x	x	x	x
CVQ	Marshalling racks	x	x	x	x	x
CVR	Marshalling racks	x	x	x	x	x
CVS	Marshalling racks	x	x	x	x	x
CVT	Marshalling racks	x	x	x	x	x
CVU	Marshalling racks	x	x	x	x	x
CVV	Marshalling racks	x	x	x	x	x
CVX	Marshalling racks	x	x	x	x	x
CVY	Marshalling racks	x	x	x	x	x
CVZ	Marshalling racks	x	x	x	x	x
CW	CONTROL ROOM	x	x	x	x	x
CWA	Main Control consoles	x	x	x	x	x
CWB	Main Control consoles	x	x	x	x	x
CWC	Main Control consoles	x	x	x	x	x
CWD	Main Control consoles	x	x	x	x	x
CWE	Main Control consoles	x	x	x	x	x
CWF	Main Control Panel	x	x	x	x	x
CWG	Main Control Panel	x	x	x	x	x
CWH	Main Control Panel	x	x	x	x	x
CWJ	Main Control Panel	x	x	x	x	x
CWK	Main Control Panel	x	x	x	x	x
CWL	Main Control Panel	x	x	x	x	x
CWM	Main Control Panel	x	x	x	x	x
CWN	Main Control Panel	x	x	x	x	x
CWP	Main Control Panel	x	x	x	x	x
CWQ	Control rooms	x	x	x	x	x
CWR	Control rooms	x	x	x	x	x
CWS	Control rooms	x	x	x	x	x
CWT	Control rooms	x	x	x	x	x
CWU	Control rooms	x	x	x	x	x
CWV	Control rooms	x	x	x	x	x
CWW	Control rooms	x	x	x	x	x
CWX	Control rooms	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CWY	Control rooms	x	x	x	x	x
CX	LOCAL CONTROL STATIONS	x	x	x	x	x
CXA	Local control stations	x	x	x	x	x
CXB	Local control stations	x	x	x	x	x
CXC	Local control stations	x	x	x	x	x
CXD	Local control stations	x	x	x	x	x
CXE	Local control stations	x	x	x	x	x
CXF	Local control stations	x	x	x	x	x
CXG	Local control stations	x	x	x	x	x
CXH	Local control stations	x	x	x	x	x
CXJ	Local control stations	x	x	x	x	x
CXK	Local control stations	x	x	x	x	x
CXL	Local control stations	x	x	x	x	x
CXM	Local control stations	x	x	x	x	x
CXN	Local control stations	x	x	x	x	x
CXP	Local control stations	x	x	x	x	x
CXQ	Local control stations	x	x	x	x	x
CXR	Local control stations	x	x	x	x	x
CXS	Local control stations	x	x	x	x	x
CXT	Local control stations	x	x	x	x	x
CXU	Local control stations	x	x	x	x	x
CXV	Local control stations	x	x	x	x	x
CXW	Local control stations	x	x	x	x	x
CXX	Local control stations	x	x	x	x	x
CXY	Local control stations	x	x	x	x	x
CY	TELECOMMUNICATION EQUIPMENT	x	x	x	x	x
CYA	Telephone system (PAX/PABX)	x	x	x	x	x
CYB	Telephone Control Console (Intercom system repeater and base station	x	x	x	x	x
CYC	Loudspeaker System (Tone alarm public address)	x	x	x	x	x
CYD	Visual Signal System	x	x	x	x	x
CYE	Fire Alarm System	x	x	x	x	x
CYF	Clock System	x	x	x	x	x
CYG	Remote Supervisory System	x	x	x	x	x
CYH	Telemetering System	x	x	x	x	x
CYJ	Remote Metering System	x	x	x	x	x
CYK	HF Carrier Telephone System	x	x	x	x	x
CYL	Staff Paging System, Wireless*	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CYM	Staff Paging System, Inductive*	x	x	x	x	x
CYN	Staff Paging System, Hardwired*	x	x	x	x	x
CYP	Optical monitoring system	x	x	x	x	x
CYQ	Gas alarm system	x	x	x	x	x
CYR	Pneumatic Tube Conveyor	x	x	x	x	x
CYS	Radio Network (VHF, UHF, SHF).	x	x	x	x	x
CYT	Intrusion detection system	x	x	x	x	x
CYU	Access control system	x	x	x	x	x
CYV	Plant and production management system	x	x	x	x	x
CYW	EPPA (if separate from CYC)	x	x	x	x	x
CYX	Communication and information system. (available for use)	x	x	x	x	x
CYY	Consolidated building management system	x	x	x	x	x
CYZ	Data equipment for commercial application.	x	x	x	x	x
E	**CONVENTIONAL FUEL SUPPLY AND RESIDUE DISPOSAL**	**x**				
EA	COAL UNLOADING AND STORAGE	x				
EAA	Ship unloading system* From Incl. unloading equipment	x				
	From Incl. unloading equipment	x				
	To Excl. transport storage system	x				
EAB	Wagon and truck unloading	x				
	From Incl. unloading equipment	x				
	To Excl. transport storage system	x				
EAC	Transport System	x				
	From Incl. reception point	x				
	To Excl. storage (stockpile) Incl. internal transport system within coal unloading and storage areas	x				
	To Excl. outlet	x				
EAD	Stacking, reclaiming equipment	x				
	From Excl. transport system	x				
	To Excl. storage system (stockpile)	x				
EAE	Storage area (stockpile)	x				
	From Excl. stacking, reclaiming system	x				
	To Excl. transport stacking, reclaiming system	x				
EAF	Excavation system, return loading system*	x				
	From Excl. bunker system storage area	x				
	To Excl. transport system	x				
EAT	Weighing equipment (massmeter)	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
EAU	Sampling equipment	x				
EAX	Control medium supply for closed/open loop control and protection equipment	x				
EAY	Closed/open loop control and protection equipment	x				
EB	MECHANICAL COAL TREATMENT (COAL CRUSHING, MIXING DRYING)*	x				
	BEFORE STATION RECEPTION POINT	x				
EBA	Transport system	x				
	From Incl. receiving point	x				
	To Excl. transfer point to treatment mixing system	x				
EBB	Mixing system	x				
	From Incl. receiving point	x				
	To Excl. transfer point to another system	x				
EBC	Crushing System	x				
	From Incl. receiving point	x				
	To Excl. transfer point of another system	x				
EBD	Screening System	x				
	From Incl. receiving point	x				
	To Excl. transfer point of another system	x				
EBE	Separator system and associated removal equipment - if not	x				
	constructive part of one of the previous systems (EBA to EBD)	x				
	From Incl. receiving point	x				
	To Excl. transfer point of another system	x				
EBR	Residue removal	x				
EBT	Weighing equipment (massmeter)	x				
EBU	Sampling equipment	x				
EBX	Control medium supply for closed/open loop control and protection equipment	x				
EBY	Closed/open loop control and protection equipment	x				
EC	COAL DISTRIBUTION AND UNIT (INTERMEDIATE) STORAGE SYSTEM	x				
ECA	Transport system	x				
	From Excl. coal unloading and storage system	x				
	To Excl. unit (intermediate) storage system (silos/staithes)	x				
ECB	Transport system (Conveyors to mill bins)	x				
	From Excl. unit (intermediate) storage system (silos/staithes)	x				
	To Excl. bunker for pulverising system	x				
ECE	Unit (intermediate) storage system (silos/staithes)	x				
	From Excl. transport system	x				
	To Excl. transport system (conveyors to mill bins)	x				
ECT	Weighing equipment (massmeter)	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
ECU	Sampling equipment	x				
ECX	Control medium supply for closed/open loop control and protection equipment	x				
ECY	Closed/open loop control and protection equipment	x				
ED	CHEMICAL COAL TREATMENT INCLUDING RESIDUE REMOVAL					
	(E.G. DESULPHURISATION PLANT)*					
EE	COAL CONVERTING (PRESSURE GASIFICATION)*					
EG	OIL SUPPLY (APPLICABLE TO ESKOM LIGHTING-UP OIL SYSTEM)	x				
EGA	Handing over point equipment including long distance pipeline	x				
	From Excl. reception point	x				
	To Excl. tank Incl. handing over pumping units	x				
EGB	Storage tank system	x				
	From Incl. inlet of storage tank	x				
	To Incl. outlet of storage tank	x				
EGC	Pumping system	x				
	From Incl. pump suction flange	x				
	To Incl. pump discharge flange	x				
EGD	Piping system	x				
	From Excl. tank outlet	x				
	To Excl. intermediate oil tank *respective individual consumers (Burners)	x				
EGR	Residue removal system	x				
EGT	Heating medium system (Steam system)	x				
	From Excl. branch of supply system	x				
	To Incl. consumer and	x				
	From Excl. consumers	x				
	To Excl. inlet into another system	x				
EGX	Control medium supply for closed/open loop control and protection equipment	x				
EGY	Closed/open loop control and protection equipment	x				
EH	CHEMICAL OIL TREATMENT INCLUDING RESIDUE REMOVAL*					
EK	GAS SUPPLY (APPLICABLE TO ESKOM LIGHTING-UP GAS SYSTEM)	x				
EKA	Gas pipe system equipment including long distance pipeline	x				
	From Excl. off-loading point	x				
	To Incl. inlet of another system	x				
EKB	Liquid separation	x				
	From Incl. Liquid separation inlet	x				
	To Incl. liquid separation outlet	x				
EKC	Heating system*	x				
	From Incl. heating inlet	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Incl. heating outlet	x				
EKD	Pressure reducing station (Expansion turbine*)					
	From Incl. pressure reducing station inlet					
	To Incl. pressure reducing station outlet					
EKE	Mechanical purification, gas scrubbing*					
	From Incl. inlet mechanical purification gas scrubbing					
	To Incl. outlet mechanical purification gas scrubbing					
EKF	Storage tank system (Cylinders)	x				
	from Incl. storage tank inlet	x				
	To Incl. storage tank outlet	x				
EKG	Piping system	x				
	From Excl. storage system	x				
	To Excl. supply to customers	x				
EKH	Main pressure increasing equipment*					
	From Incl. pump suction flange					
	To Incl. pump discharge flange					
EKR	Residue separation*					
EKT	Heating medium system*					
	From Excl. diversion supply system					
	To Excl. consumer and					
	From Excl. consumer					
	To Excl. feed into another system					
EKX	Control medium supply for closed/open loop control and protection equipment	x				
EKY	Closed/open loop control and protection equipment	x				
EL	CHEMICAL TREATMENT OF GASEOUS FUEL INCL. RESIDUE REMOVAL					
EN	OTHER FUEL SUPPLY (USE ONLY FOR COMBINATIONS OF DIFFERENT FUEL TYPES		x			
ENA	Diesel fuel oil storage		x			
	From Incl. storage tank inlet		x			
	To Incl. storage tank outlet		x			
END	Diesel fuel oil piping system		x			
	From Excl. off-loading point		x			
	To Incl. inlet of another system		x			
ENG	Diesel fuel oil pumping system		x			
	From Incl. pump suction flange		x			
	To Incl. pump discharge flange		x			
ENX	Control medium supply of closed/open loop control and protection equipment		x			
EQ	TREATMENT OF OTHER FUEL					

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	(USE ONLY FOR COMBINATIONS OF DIFFERENT FUEL TYPES					
EP	CONVERSION OF OTHER FUEL (USE ONLY FOR COMBINATIONS OF DIFFERENT FUEL TYPES					
ER	LIGHTING-UP FUEL SUPPLY					
ERA	Pulverised coal supply system*					
	From Excl. reception point					
	To Excl. coal burners or					
	To Excl. other consumers					
ERB	Oil supply system* (For Eskom see EG system)					
	From Excl. reception point					
	To Excl. oil burners or					
	To Excl. other consumers					
ERC	Gas supply system* (For Eskom see EK system)					
	From Excl. reception point					
	To Excl. gas burners or					
	To Excl. other consumers					
ERX	Control medium supply for closed/open loop control and protection equipment					
ERY	Closed/open loop control and protection equipment					
ET	ASH AND SLAG REMOVAL SYSTEM (FROM EXCLUDING REMOVAL EQUIPMENT)	x				
ETA	Wet ash conveying system	x				
	From Excl. transport equipment (submerged scraper conveyor) or	x				
	From Excl. reception point	x				
	To Excl. storage area or	x				
	To Excl. transport point of another system (transverse conveyor)	x				
ETB	Wet ash settling pond and storage system*	x				
	From Excl. reception point	x				
	To Incl. transport equipment	x				
ETC	Wet ash extraction system*	x				
	From Excl. reception point	x				
	To Excl. transfer point of another system	x				
ETD	Granulate conveying system (coarse ash)	x				
	From Excl. transport equipment	x				
	To Excl. storage tank or	x				
	To Excl. transfer point of another system	x				
ETE	Granulate storage system (coarse ash)	x				
	From Excl. reception point	x				
	To Incl. transport equipment	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
ETG	Dry ash conveying system	x				
	From Excl. transport equipment (e.g. precipitator outlet)	x				
	To Excl. storage system or	x				
	To Excl. transfer point of another system	x				
ETH	Dry ash storage system (Fly ash bunker)	x				
	From Excl. reception point	x				
	To Excl. transport equipment (ash conditioners)	x				
ETK	Wet and dry ash common conveying system	x				
	From Excl. reception point	x				
	To Excl. storage area or	x				
	To Excl. transfer point of another system	x				
ETL	Wet and dry ash common storage system (Ash dump, ash dam)	x				
	From Excl. reception point	x				
	To Incl. storage point	x				
ETM	Wet and dry ash settling system*	x				
	From Excl. reception point conveying machinery	x				
	To Excl. pit or	x				
	To Excl. transfer point of another system	x				
ETN	Scavenge water transport, distribution and recovery for flushing and ash water	x				
	From Excl. inlet or	x				
	From Incl. diversion	x				
	To Excl. inlet into another system	x				
ETP	Generation and distribution of conveying/aeration air	x				
	From Excl. diversion or	x				
	From Incl. compressor plant	x				
	To Excl. inlet into conveying system	x				
ETS	Stacking, reclaiming, spreading system	x				
	From Excl. transport system	x				
	From Excl. storage system (ash dump)	x				
ETX	Control medium supply for closed/open loop control and protection equipment	x				
ETY	Closed/open loop control and protection equipment	x				
EU	TREATMENT AND TRANSPORT SYSTEM FOR COMBUSTION, FUEL TREATMENT,	x				
	FUEL CONVERTING, FUEL GAS CLEANING RESIDUE	x				
EUA	Treatment system for residue of fuel treatment	x				
	From Incl. inlet	x				
	To Incl. outlet	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
EUB	Treatment system for residue of fuel converting	x				
	From Incl. inlet	x				
	To Incl. outlet	x				
EUC	Treatment system for residue of fuel combustion	x				
	From Incl. inlet	x				
	To Incl. outlet	x				
EUD	Treatment system for residue of fuel gas purification	x				
	From Incl. Inlet	x				
	To Incl. outlet	x				
EUX	Control medium supply for closed/open loop control and protection equipment	x				
EUY	Closed/open loop control and protection equipment.	x				
EY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x	x			
EYA	Control Desk in Control Room	x	x			
EYB	Control Panel in Control Room	x	x			
EYC	Local Control Panel Desk and Solenoid Operated Valve Panel	x	x			
EYD	Spare	x	x			
EYE	Spare	x	x			
EYF	Spare	x	x			
EYG	Marshalling Panel	x	x			
EYH	Measurement Rack	x	x			
EYJ	Spare	x	x			
EYK	DC Supply including Associated Equipment	x	x			
EYL	AC Supply a Distribution	x	x			
EYQ	Computer Equipment	x	x			
EYW	Common Equipment	x	x			
EYX	Common Equipment	x	x			
EYY	Common Equipment	x	x			
EYZ	Common Equipment	x	x			
G	**WATER SUPPLY AND DISCHARGE**	**x**	**x**	**x**	**x**	**x**
GA	RAW WATER SUPPLY SYSTEM	x	x	x	x	x
GAA	Supply system , mechanical	x	x	x	x	x
	From Incl. inlet screen	x	x	x	x	x
	To Incl. outlet screen	x	x	x	x	x
GAC	Piping and channel system	x	x	x	x	x
	From Excl. extraction point or	x	x	x	x	x
	From Excl. outlet of another system	x	x	x	x	x
	To Excl. inlet into another system	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
GAD	Storage equipment	x	x	x	x	x
	From Incl. storage system inlet	x	x	x	x	x
	To Incl. storage system outlet	x	x	x	x	x
GAF	Pumping system	x	x	x	x	x
	From Incl. pump suction flange	x	x	x	x	x
	To Incl. pump discharge flange	x	x	x	x	x
GAV	Lubrication medium supply	x	x	x	x	x
GAX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GAY	Closed/open loop control and protection equipment	x	x	x	x	x
GB	TREATMENT (DECARBONISATION) INCL. COOLING TOWER MAKE-UP WATER TREATMENT	x	x	x	x	x
GBB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. inlet to purification equipment	x	x	x	x	x
	To Incl. outlet of purification equipment	x	x	x	x	x
GBC	Ventilation , gas injection	x	x	x	x	x
	From Excl. atmosphere or	x	x	x	x	x
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GBD	Precipitation (e.g. decarbonisation , flocculation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GBE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
GBF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply isolating valve , auxiliary medium supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger system outlet	x	x	x	x	x
GBG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. hot steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GBH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet Incl. heating equipment steam condenser	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
GBJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater or cooler inlet	x	x	x	x	x
	To Incl. heater or cooler outlet	x	x	x	x	x
GBK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	To Incl. medium treatment outlet	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GBL	Storage outside medium handling (if not part of another system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x
	To Incl. storage plant outlet	x	x	x	x	x
GBN	Chemical supply system	x	x	x	x	x
	From Incl. intake or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer of another system	x	x	x	x	x
GBP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection to another system	x	x	x	x	x
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GBQ	Injection device for main medium (e.g. hardness stabilisation)	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GBR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GBS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer of another system	x	x	x	x	x
GBT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating ,cooling and flushing medium production or	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. heating ,cooling and flushing medium supply junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GBX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GBY	Closed/open loop control and protection equipment	x	x	x	x	x
GC	TREATMENT (DEMINERALISATION)	x	x	x	x	x
GCB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. separator system inlet	x	x	x	x	x
	To Incl. separator system outlet	x	x	x	x	x
GCC	Ventilation , gas injection	x	x	x	x	x
	From Excl. atmosphere or	x	x	x	x	x
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GCD	Precipitation (e.g. decarbonisation , flocculation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GCE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
GCF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x	x	x	x
	medium supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger system outlet	x	x	x	x	x
GCG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. hot steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GCH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet incl. heating equipment steam condenser	x	x	x	x	x
GCJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater or cooler inlet	x	x	x	x	x
	To Incl. heater or cooler outlet	x	x	x	x	x
GCK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	To Incl. medium treatment outlet	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GCL	Storage outside medium handling (if not part of another system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x
	To Incl. storage plant outlet	x	x	x	x	x
GCN	Chemical supply system	x	x	x	x	x
	From Incl. intake or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer into another system	x	x	x	x	x
GCP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection to another system	x	x	x	x	x
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GCQ	Injection device for main medium (e.g. hardness stabilisation)	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GCR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GCS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer of another system	x	x	x	x	x
GCT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating , cooling and flushing medium production or	x	x	x	x	x
	From Excl. heating , cooling and flushing medium supply	x	x	x	x	x
	junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GCX	Control medium supply for closed/open loop control and protection	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	equipment					
GCY	Closed/open loop control and protection equipment	x	x	x	x	x
GD	TREATMENT	x	x	x	x	x
GDB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. separator system inlet	x	x	x	x	x
	To Incl. separator system outlet	x	x	x	x	x
GDC	Ventilation , gas injection	x	x	x	x	x
	From Excl. atmosphere or	x	x	x	x	x
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GDD	Precipitation (e.g. decarbonisation , flocculation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GDE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
GDF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x	x	x	x
	medium supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger system outlet	x	x	x	x	x
GDG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. hot steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GDH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet incl. heating equipment steam condenser	x	x	x	x	x
GDJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater or cooler inlet	x	x	x	x	x
	To Incl. heater or cooler outlet	x	x	x	x	x
GDK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	To Incl. medium treatment outlet	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GDL	Storage outside medium handling (if not part of other system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x
	To Incl. storage plant outlet	x	x	x	x	x
GDN	Chemical supply system	x	x	x	x	x
	From Incl. intake or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer of another system	x	x	x	x	x
GDP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection to another system	x	x	x	x	x
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GDQ	Injection device for main medium (e.g. hardness stabilisation)	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GDR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GDS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GDT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating , cooling and flushing medium production or	x	x	x	x	x
	From Excl. heating , cooling and flushing medium supply junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GDX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GDY	Closed/open loop control and protection equipment	x	x	x	x	x
GH	DISTRIBUTION SYSTEM (NOT POTABLE WATER AND NOT COOLING WATER)	x	x	x	x	x
GHB	Distribution after treatment (decarbonisation)	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	to Excl. inlet into another system	x	x	x	x	x
GHC	Distribution after treatment (demineralisation)	x	x	x	x	x
	to Excl. inlet into another system	x	x	x	x	x
GHD	Distribution after treatment (others)	x	x	x	x	x
	to Excl. inlet into another system	x	x	x	x	x
GHE	Irrigation system	x	x	x	x	x
GK	POTABLE WATER PRODUCTION AND DISTRIBUTION	x	x	x	x	x
GKA	Production , taking over	x	x	x	x	x
GKB	Potable water storage	x	x	x	x	x
GKC	Potable water distribution	x	x	x	x	x
GKY	Closed/open loop control and protection equipment	x	x	x	x	x
GM	PLANT DRAIN RECOVERY SYSTEM	x	x	x	x	x
GMA	Dirty water storage system	x	x	x	x	x
GMB	Clean water storage system	x	x	x	x	x
GMC	Clean and dirty water storage system	x	x	x	x	x
GME	Dirty water transport system	x	x	x	x	x
GMF	Clean water transport system	x	x	x	x	x
GMG	Clean and dirty water transport system	x	x	x	x	x
GN	TREATMENT OF PLANT DRAIN WATER	x	x	x	x	x
GNA	Pipework, supply line, distribution outside medium handling (If not part of another system)	x	x	x	x	x
	From Excl. tap-off point or	x	x	x	x	x
	From Excl. outlet of another system	x	x	x	x	x
	To Excl. inlet of medium treatment	x	x	x	x	x
	From Excl. outlet of medium treatment	x	x	x	x	x
	To Excl. inlet of other system	x	x	x	x	x
GNB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. separator system inlet	x	x	x	x	x
	To Incl. separator system outlet	x	x	x	x	x
GNC	Ventilation , gas injection	x	x	x	x	x
	From Excl. atmosphere or	x	x	x	x	x
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GND	Precipitation (e.g. decarbonisation) (flocculation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GNE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. inlet into another system	x	x	x	x	x
GNF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply , isolating valve of chemical supply, auxiliary medium	x	x	x	x	x
	supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger outlet	x	x	x	x	x
GNG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GNH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet incl. heat up equipment ,steam condenser	x	x	x	x	x
GNJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater , cooler inlet	x	x	x	x	x
	To Incl. heater , cooler outlet	x	x	x	x	x
GNK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Incl. medium treatment outlet	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GNL	Storage outside medium handling (if not part of other system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x
	To Incl. storage plant outlet	x	x	x	x	x
GNN	Chemical supply system	x	x	x	x	x
	From Incl. extraction point or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer to another system	x	x	x	x	x
GNP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection into another system	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GNQ	Injection device for main medium	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GNR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GNS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GNT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating , cooling and flushing medium production or	x	x	x	x	x
	From Excl. heating , cooling and flushing medium supply junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GNX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GNY	Closed/open loop control and protection equipment	x	x	x	x	x
GQ	COLLECTION AND DISCHARGE SYSTEM FOR DOMESTIC LIQUID WASTE (SEWAGE)	x	x	x	x	x
GQA	Domestic liquid waste (sewage) collection and discharge piping system	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Incl. raw sewage collection	x	x	x	x	x
GQB	Domestic liquid waste pumping system	x	x	x	x	x
	(Excl. interconnecting piping)	x	x	x	x	x
	From Incl. suction flange pumping system	x	x	x	x	x
	To Incl. discharge flange pumping system	x	x	x	x	x
GQX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GQY	Closed/open loop control and protection equipment	x	x	x	x	x
GR	DOMESTIC LIQUID WASTE TREATMENT (SEWAGE)	x	x	x	x	x
GRB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. separator system inlet	x	x	x	x	x
	To Incl. separator system outlet	x	x	x	x	x
GRC	Ventilation , gas injection	x	x	x	x	x
	From Excl. atmosphere or	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GRD	Precipitation (e.g. decarbonisation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GRE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x
	To Excl. inlet into another system	x	x	x	x	x
GRF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x	x	x	x
	medium supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger system outlet	x	x	x	x	x
GRG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GRH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet Incl. heat up equipment ,steam condenser	x	x	x	x	x
GRJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater , cooler inlet	x	x	x	x	x
	To Incl. heater , cooler outlet	x	x	x	x	x
GRK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GRL	Storage outside medium handling (if not part of another system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x
	To Incl. storage plant outlet	x	x	x	x	x
GRN	Chemical supply system	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. extraction point or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer to another system	x	x	x	x	x
GRP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection into another system	x	x	x	x	x
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GRQ	Injection device for main medium	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GRR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GRS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GRT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating , cooling and flushing medium production or	x	x	x	x	x
	From Excl. heating , cooling and flushing medium supply junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GRX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GRY	Closed/open loop control and protection equipment	x	x	x	x	x
GT	WATER RECOVERY FROM DOMESTIC LIQUID WASTE (SEWAGE)	x	x	x	x	x
GTA	Liquid waste water recovery collection and discharge piping system	x	x	x	x	x
	From Excl. final filtration	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GU	COLLECTION AND DISCHARGE SYSTEM FOR RAIN WATER	x	x	x	x	x
GUA	Common discharge piping and channel system	x	x	x	x	x
GUB	Storage system	x	x	x	x	x
GV	RAIN WATER TREATMENT	x	x	x	x	x
GVB	Filtering , mechanical purification	x	x	x	x	x
	From Incl. separator system inlet	x	x	x	x	x
	To Incl. separator system outlet	x	x	x	x	x
GVC	Ventilation , gas injection	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. atmosphere or	x	x	x	x	x
	From Incl. gas supply	x	x	x	x	x
	To Excl. inlet to another system	x	x	x	x	x
GVD	Precipitation (e.g. decarbonisation) (flocculation)	x	x	x	x	x
	From Incl. precipitation inlet	x	x	x	x	x
	To Incl. precipitation outlet	x	x	x	x	x
GVE	Acid dosing (e.g. decarbonisation)	x	x	x	x	x
	From Incl. acid dosing equipment or	x	x	x	x	x
	From Excl. chemical supply branch	x	x	x	x	x
	To Excl. inlet into another system	x	x	x	x	x
GVF	Ion exchanger (e.g. desalination)	x	x	x	x	x
	From Incl. ion exchanger system inlet and	x	x	x	x	x
	From Incl. chemical supply isolating valve , auxiliary to medium supply to ion exchanger	x	x	x	x	x
	To Incl. ion exchanger system outlet	x	x	x	x	x
GVG	Evaporation (e.g. desalination)	x	x	x	x	x
	From Incl. feedwater inlet	x	x	x	x	x
	To Incl. steam outlet and	x	x	x	x	x
	From Incl. hot steam inlet	x	x	x	x	x
	To Incl. condensate outlet	x	x	x	x	x
GVH	Degasification , drying	x	x	x	x	x
	From Incl. degasifier tank inlet	x	x	x	x	x
	To Incl. tank outlet incl. heat up equipment ,steam condenser	x	x	x	x	x
GVJ	Preheating , cooling	x	x	x	x	x
	From Incl. heater , cooler inlet	x	x	x	x	x
	To Incl. heater , cooler outlet	x	x	x	x	x
GVK	Internal piping , intermediate storage , pump system for main medium	x	x	x	x	x
	Internal piping:	x	x	x	x	x
	From Excl. extraction point or outlet of another system	x	x	x	x	x
	To Excl. inlet of another system	x	x	x	x	x
	To Incl. medium treatment outlet	x	x	x	x	x
	Intermediate storage:	x	x	x	x	x
	From Incl. inlet , intermediate storage	x	x	x	x	x
	To Incl. outlet , intermediate storage	x	x	x	x	x
	Pump system:	x	x	x	x	x
	From Incl. suction flange , pumping system	x	x	x	x	x
	To Incl. discharge flange , pumping system	x	x	x	x	x
GVL	Storage outside medium handling (if not part of another system)	x	x	x	x	x
	From Incl. storage plant inlet	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	Incl. storage plant outlet	x	x	x	x	x
GVN	Chemical supply system	x	x	x	x	x
	From Incl. extraction point or	x	x	x	x	x
	From Incl. storage tank	x	x	x	x	x
	To Excl. transfer to another system	x	x	x	x	x
GVP	Regeneration and purging equipment	x	x	x	x	x
	From Incl. system inlet	x	x	x	x	x
	To Excl. injection into another system	x	x	x	x	x
	From Excl. chemical supply , auxiliary medium supply and purging air supply	x	x	x	x	x
	To Incl. regeneration purging equipment	x	x	x	x	x
GVQ	Injection device for main medium	x	x	x	x	x
	From Incl. injection device or	x	x	x	x	x
	From Excl. chemical supply junction	x	x	x	x	x
	To Incl. inlet into another system	x	x	x	x	x
GVR	Flushing water and residue removal incl. neutralisation	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GVS	Sludge thickener	x	x	x	x	x
	From Excl. outlet of the respective system	x	x	x	x	x
	To Excl. transfer point of another system	x	x	x	x	x
GVT	Heating , cooling and flushing medium distribution	x	x	x	x	x
	From Incl. heating , cooling and flushing production or	x	x	x	x	x
	From Excl. heating , cooling and flushing medium supply junction	x	x	x	x	x
	To Excl. consumer and	x	x	x	x	x
	From Excl. consumer	x	x	x	x	x
GVX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
GVY	Closed/open loop control and protection equipment	x	x	x	x	x
GY	CLOSED/OPEN CONTROL LOOP AND PROTECTION EQUIPMENT	x	x	x	x	x
GYA	Control desk in control room	x	x	x	x	x
GYB	Control panel in control room	x	x	x	x	x
GYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
GYD	Spare	x	x	x	x	x
GYE	Spare	x	x	x	x	x
GYF	Spare	x	x	x	x	x
GYG	Marshalling panel	x	x	x	x	x
GYH	Measuring rack	x	x	x	x	x
GYJ	Spare	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
GYK	DC supply incl. associated equipment	x	x	x	x	x
GYL	AC supply and distribution	x	x	x	x	x
GYQ	Computer equipment	x	x	x	x	x
GYW	Common equipment	x	x	x	x	x
GYX	Common equipment	x	x	x	x	x
GYY	Common equipment	x	x	x	x	x
GYZ	Common equipment	x	x	x	x	x
H	**CONVENTIONAL HEAT GENERATION**	**x**				
HA	PRESSURE PARTS SYSTEM	x				
HAA	LP-partial preheating system (flue gas heated)*	x				
	From Incl. LP-partial preheating system inlet	x				
	To Incl. LP-partial preheating system outlet	x				
HAB	HP-partial preheating system (flue gas heated)*	x				
	From Incl. HP-partial preheating system inlet	x				
	To Incl. HP-partial preheating system outlet	x				
HAC	Economiser system	x				
	From Incl. boiler inlet header	x				
	To Excl. evaporator inlet incl. controllable	x				
HAD	Evaporator system	x				
	From Incl. evaporator system inlet	x				
	To Incl. evaporator system outlet					
	To Incl. steam separator vessel and water collecting	x				
	vessel (once through) or	x				
	To Excl. water steam separator collecting vessel(drum)	x				
HAG	Circulating equipment (incl. circulating pumps)	x				
	From Excl. steam separator vessel	x				
	From Incl. water collecting vessel (once through)	x				
	From Excl. water steam separator collecting vessel(drum)	x				
	To Excl. heating surfaces system inlet (discharge	x				
	systems are covered under 'L')	x				
	To Excl. feedwater system	x				
HAH	HP-super heater system	x				
	From Excl. evaporator system outlet	x				
	To Incl. boiler outlet header	x				
HAJ	Reheating system	x				
	From Incl. reheater inlet header	x				
	To Incl. reheater outlet header	x				
HAK	Secondary reheating system*	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. secondary reheater inlet header	x				
	To Incl. secondary reheater outlet header	x				
HAM	Triflux-system*	x				
	From Incl. triflux-system inlet	x				
	To Incl. triflux-system outlet	x				
HAN	Drainage , discharge and venting of pressure parts system	x				
	From Incl. collecting point or	x				
	From Excl. final drain/vent valve	x				
	From Excl. transfer point to another system	x				
HAV	Lubricant supply system	x				
HAW	Fluid supply system for control and protection system	x				
HAX	Control medium supply for closed/open loop control and protection equipment	x				
HAY	Closed/open loop control and protection equipment	x				
HB	SUPPORTING STRUCTURE , SKIN CASING , STEAM GENERATOR COMBUSTION CHAMBER	x				
HBA	Structure incl. foundation	x				
HBB	Casing , insulation	x				
HBC	Brick lining incl. insulation brickwork	x				
HBD	Platforms , stairs , catwalks and galleries	x				
HBK	Steam generator-combustion chamber , furnace , gas pass	x				
	From Excl. combustion area	x				
	To Excl. flue gas ducting system inlet	x				
HC	CLEANING EQUIPMENT FOR THE HEATING SURFACES ON THE FLUE GAS SIDE	x				
HCA	Air system*	x				
	From Excl. supply system connection	x				
HCB	Steam system	x				
	From Excl. supply system connection	x				
HCC	Water system*	x				
	From Excl. supply system connection	x				
HCD	Flushing system*	x				
	From Excl. supply system connection	x				
HCE	Vibrating equipment	x				
HCF	Shotblast cleaning system	x				
HCG	Soundwave system	x				
HCV	Lubricant supply system	x				
HCW	Sealing medium supply	x				
HCX	Control medium supply for closed/open loop control and protection	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	equipment					
HCY	Closed/open loop control and protection equipment	x				
HD	ASH AND SLAG HANDLING	x				
HDA	Furnace ash and slag removal	x				
	From Incl. ash hopper and removal appliance	x				
	To Excl. transfer point of removal system	x				
HDC	Flue dust returning (grit refiring)	x				
	From Excl. removal system secondary heating surface or	x				
	From Excl. flue gas dust separator boiler or	x				
	From Excl. junction for flue gas dust returning	x				
	To Excl. flue dust burner or	x				
	To Excl. inlet of another system	x				
HDD	Mechanical dust handling and return system	x				
	From Excl. flue gas duct inlet	x				
	To Excl. flue gas duct outlet	x				
	To Excl. discharge to other system	x				
HDE	Electrostatic precipitator and return system	x				
	From Excl. flue gas duct inlet	x				
	To Excl. flue gas duct outlet	x				
	To Excl. discharge to other system	x				
HDF	Cyclone dust removal and return system	x				
	From Excl. flue gas duct inlet	x				
	To Excl. flue gas duct outlet	x				
	To Excl. discharge to other system	x				
HDW	Sealing medium supply					
HDY	Closed/open loop control and protection equipment					
HF	BUNKER , FEEDER AND PULVERIZING SYSTEM (MILLS)	x				
HFA	Bunker for pulverizing system (mill bunker)	x				
	From Excl. inlet point	x				
	To Incl. bunker outlet gate	x				
HFB	Feeder system	x				
	From Excl. bunker outlet gate	x				
	To Excl. pulverizing system inlet	x				
HFC	Pulverizing system (incl. classifier and mill system)	x				
	From Incl. pulverizing system inlet	x				
	To Excl. classifier outlet pipes	x				
HFD	Flue gas return suction*	x				
	From Excl. outlet of another system	x				
	To Excl. pulverizer plant	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
HFE	Mill air system , transport system	x				
	From Incl. air inlet or	x				
	From Excl. branch off ("HLA")	x				
	To Excl. feeder outlet pipe or	x				
	To Excl. pulverizing system or	x				
	To Excl. flue gas recirculation*	x				
HFF	Vapours flue gas system*	x				
	From Excl. separation system	x				
	To Excl. another system	x				
HFG	Dust bin and feeder system after central pulverizing	x				
	system (indirect lighting-up)	x				
	From Excl. pulverizing outlet system	x				
	To Incl. pulverized coal storage bunker outlet incl.	x				
HFV	Lubricant supply system	x				
HFW	Sealing medium supply (seal air fans)	x				
HFX	Control medium supply for closed open/loop control and protection equipment	x				
HFY	Closed/open loop control and protection equipment	x				
HH	MAIN FIRING SYSTEM (ELECTRIC POWERED)	x				
HHA	Main burner	x				
	From Incl. fuel and air side burner equipment inlet	x				
HHB	Retarded combustion grate (chain grate)*	x				
	From Incl. retarded combustion grate inlet	x				
	To Incl. inlet of another system	x				
HHC	Combustion grate	x				
	From Incl. fuel receiving point or	x				
	From Incl. firing grate inlet	x				
	To Excl. inlet of another system	x				
HHD	Other burner equipment (e.g. vapour burner , grit burner)*	x				
	From Incl. inlet	x				
	To Incl. outlet	x				
HHE	Pulverized coal storage facility ,* conveying and distribution	x				
	From Excl. pulverizing system outlet or	x				
	From Excl. pulverized coal storage facility outlet	x				
	at the central pulverizing system "HFG" or	x				
	To Excl. outlet of another system	x				
	To Excl. main burner system	x				
HHF	Intermediate oil storage facility , pumping and distribution*	x				
	From Excl. connection to main supply line or	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. intermediate tank	x				
	To Excl. main burner equipment	x				
HHG	Gas reduction , distribution*	x				
	From Excl. connection to main supply line	x				
	To Excl. main burner equipment distribution	x				
HHH	Intermediate storage facility , conveying and distribution	x				
	of other fuels , Medium 1*	x				
HHJ	Intermediate storage facility , conveying and distribution	x				
	of other fuels , Medium 2*	x				
HHK	Intermediate storage facility , conveying and distribution	x				
	of other fuels , Medium 3*	x				
HHL	Combustion air supply system to burner (secondary air)	x				
	From Excl. combustion burner	x				
	To Excl. burner	x				
HHM	Atomizing medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. burner	x				
HHN	Atomizing medium supply (air)*	x				
	From Excl. supply system connection	x				
	To Excl. burner	x				
HHP	Cooling medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. burner	x				
HHQ	Cooling medium supply (air)	x				
	From Incl. supply system connection	x				
	To Excl. burner	x				
HHR	Purging medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. burner	x				
HHS	Purging medium supply (air)*	x				
	From Excl. supply system connection	x				
	To Excl. burner	x				
HHT	Heating medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. burner and	x				
	From Excl. burner	x				
	To Excl. supply of another system	x				
HHU	Heating medium supply (warm water)*	x				
	From Excl. supply system connection	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. burner and	x				
	From Excl. burner	x				
	To Excl. supply of another system	x				
HHV	Electric heating system	x				
HHW	Sealing medium supply	x				
HHX	Control medium supply for closed/open loop control and protection equipment	x				
HHY	Closed/open loop control and protection equipment	x				
HJ	LIGHTING-UP SYSTEM (WHEN INDEPENDENT TO MAIN FIRING SYSTEM)	x				
HJA	Lighting-up burner	x				
	From Incl. fuel and air side of burner equipment inlet	x				
	To Excl. pipework	x				
HJE	Pulverized coal storage facility , conveying and distribution*	x				
	From Excl. pulverizing system outlet or	x				
	From Excl. pulverizing coal storage facility outlet at the	x				
	central pulverizing system HFG or	x				
	From Excl. outlet of another system	x				
	To Excl. ignition burner system	x				
HJF	Intermediate oil storage facility* pumping and distribution	x				
	From Excl. connection to main supply line or	x				
	From Incl. intermediate tank	x				
	To Excl. lighting-up burner system	x				
HJG	Gas reticulation distribution	x				
	From Excl. connection to main supply line (bus main)	x				
	To Excl. lighting-up burner equipment	x				
HJL	Combustion air supply system to lighting-up burner	x				
	From Incl. connection of duct system (HLA) or (HHL) or	x				
	From Incl. air inlet incl. fan*	x				
	To Excl. lighting-up burner	x				
HJM	Atomizing medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up burner	x				
HJN	Atomizing medium supply (air)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up burner	x				
HJP	Cooling medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
HJQ	Cooling medium supply (air)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system	x				
HJR	Purging medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system	x				
HJS	Purging medium supply (air)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system	x				
HJT	Heating medium supply (steam)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system and	x				
	From Excl. lighting-up system	x				
	To Excl. supply of another system	x				
HJU	Heating medium supply (warm water)*	x				
	From Excl. supply system connection	x				
	To Excl. lighting-up system	x				
	From Excl. lighting-up system	x				
	To Excl. supply of another system	x				
HJV	Lubricant supply system	x				
HJW	Sealing medium supply	x				
HJX	Control medium supply for closed/open loop control and protection equipment	x				
HJY	Closed/open loop control and protection equipment	x				
HL	COMBUSTION AIR SYSTEM (PRIMARY AIR , SECONDARY AIR)	x				
HLA	Duct system	x				
	From Incl. air inlet	x				
	To Excl. inlet connection mill air/transport air	x				
	system and air fan system , air preheater and	x				
	To Excl. gas-turbine and exhaust gas system	x				
HLB	Air fan system (primary air ,forced draught ,secondary air fans)	x				
	From Incl. inlet air suction	x				
	To Excl. outlet air fan discharge	x				
HLC	Auxiliary air preheater (not by means of flue gas)	x				
	(steam)	x				
	From Incl. air preheater inlet	x				
	To Incl. air preheater outlet	x				
HLD	Air heater (by means of flue gas)	x				
	From Incl. air heater inlet	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Incl. air heater outlet	x				
HLV	Lubricant supply system	x				
HLW	Sealing medium supply	x				
HLX	Control medium supply for closed/open loop control and protection equipment	x				
HLY	Closed/open loop control and protection equipment	x				
HN	FLUE GAS EXHAUST (INDUCED DRAUGHT)	x				
HNA	Duct system	x				
	From Excl. boiler outlet or	x				
	From Excl. outlet of another system	x				
	To Excl. smoke stack but excluding air heater, flue gas dust extraction, induced draught fan, gas scrubbing, chemical flue gas processing	x				
HNC	Induced draught fan system (ID fan)	x				
	From Incl. induced draught fan inlet	x				
	To Incl. induced draught fan outlet	x				
HNE	Smoke stack	x				
	From Incl. inlet	x				
HNF	Flue gas circulation	x				
	From Excl. flue gas main exhaust connection	x				
	To Excl. inlet of another system incl. fan system	x				
HNY	Closed/open loop control and protection equipment	x				
HQ	ELECTROSTATIC PRECIPITATORS	x				
HQA	Electrostatic precipitator plant	x				
HQC	Filter plates incl. rapping equipment	x				
HQD	Spray system incl. rapping equipment	x				
HQF	High voltage equipment	x				
HQR	Isolating steam for sulphur lines on SO3 plant	x				
	From Incl. steam saturator	x				
	To Incl. steam and condensate manifold	x				
HQT	Sulphur system on SO3 plant	x				
	From Incl. sulphur unloading pump	x				
	To Incl. injection into flue gas ducts	x				
HQX	Control medium supply for closed/open loop control and protection equipment	x				
HQY	Closed/open loop control and protection equipment	x				
HT	CHEMICAL FLUE GAS TREATMENT INCL. RESIDUE REMOVAL ABSORPTIVE PROCESS	x				
HTA	Flue gas ducting system within HT	x				
	From Excl. HNA	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. inlet to HNA	x				
HTB	Flue gas-side heat exchanger , gas heater (not HU)	x				
HTC	Flue gas fan system	x				
	From Incl. inlet	x				
	To Incl. outlet	x				
HTD	Flue gas scrubbing system	x				
	From Incl. flue gas inlet	x				
	To Incl. moisture separator outlet	x				
HTE	Flue gas cleaning and filtering system	x				
	Task: additional cleaning within HT ; not belonging	x				
	to HP , HQ and HR	x				
HTF	Absorption cycle	x				
	From Incl. inlet	x				
	To Incl. outlet	x				
HTG	Oxidation system incl. supply system	x				
	To Excl. user or scrubber	x				
HTJ	Absorbent supply system incl. storage system	x				
	To Excl. mashing (HTK)	x				
HTK	Absorbent preparation and distribution system	x				
	From Incl. mashing , slaking	x				
	To Excl. user or scrubber	x				
HY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x				
HYA	Control desk in control room	x				
HYB	Control panel in control room	x				
HYC	Local control panel , desk and solenoid operated valve panel	x				
HYD	PLC	x				
HYE	Spare	x				
HYF	Equipment room cubicle	x				
HYG	Marshalling panel	x				
HYH	Measurement rack	x				
HYJ	Spare	x				
HYK	DC supply incl. associated equipment	x				
HYL	AC supply and distribution	x				
HYQ	Computer equipment	x				
HYW	Common equipment	x				
HYX	Common equipment	x				
HYY	Common equipment	x				
HYZ	Common equipment	x				

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
J	**NUCLEAR HEAT GENERATION**				**x**	
JA	REACTOR SYSTEM				x	
JAA	Reactor vessel				x	
	Scope: reactor vessel incl. nozzles and parts welded				x	
	directly to the vessel				x	
JAB	Reactor vessel closure head#				x	
	Scope: includes flanges , seals and bolts ; for rotating				x	
	plugs , incl. drives				x	
JAC	Reactor vessel internals##				x	
JAD	Reactor vessel liner				x	
	Limit: linear anchor ;				x	
	for liners with attachment-welded piping:				x	
	To : Excl. liner cooling system				x	
JAE	Liner cooling system				x	
	Task: to remove heat from the liner				x	
	Limit: connection to liner cooling system or				x	
	header thereof ; otherwise incl. piping				x	
JAF	Reactor vessel prestressing equipment				x	
	Task: to maintain and monitor tension of prestressing cables				x	
	of reactor vessel				x	
JAG	Reactor internal insulation				x	
	Limit: associated fasteners , incl. closure head insulation				x	
	# if JAA is not sufficient				x	
	## code reactor vessel internals under JB if JAC is not sufficient for identification				x	
JAH	Reactor external insulation				x	
	Limit: associated fasteners , incl. closure head insulation				x	
JAJ	Reactor vessel cooling system (only if separate from liner				x	
	cooling system) (RPVCS)				x	
	Task: to remove heat from reactor vessel wall				x	
JAK	Core conditioning system (CCS)				x	
JAL	Reactor unit conditioning system (RUCS)				x	
	Task: cooling of the RPV and removal of the Core heat				x	
	Limit: connection to the core inlet and outlet plenums				x	
JAT	Leak-off system and leakage detection system				x	
JAU	RPV Supports				x	
JAW	Sealing fluid supply system				x	
JAY	Closed/open loop control and protection equipment				x	
JB	REACTOR VESSEL INTERNALS#				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	# = use JB only if JAC is not sufficient for identification				x	
JD	REACTOR CONTROL AND SHUTDOWN EQUIPMENT				x	
JDA	Control rod drive mechanism (RCS)				x	
	Task: to move control assemblies				x	
	Limit: coupling to control assembly ; connectors to power supply				x	
	Scope: components that have to be removed when the reactor				x	
	vessel is opened up				x	
	Guide components welded onto the reactor vessel				x	
	to be identified under JAC				x	
JDC	Mechanical control equipment for coolant flow rate				x	
	Task: to control the coolant flow rate in operation				x	
JDE	Solid neutron absorber shutdown system (RSS)				x	
	Task: to render and maintain the reactor core subcritical				x	
JDH	Liquid neutron absorber shutdown system				x	
	Task: to render and maintain the reactor core subcritical				x	
JDJ	2nd backup liquid neutron absorber shutdown system				x	
	Task: to render and maintain the reactor core subcritical				x	
	during specific transients				x	
JDK	Emergency shutdown system				x	
	Task: to render and maintain the reactor core subcritical				x	
	in emergencies				x	
JDM	Gaseous neutron absorber shutdown system				x	
	Task: to render and maintain the reactor core subcritical				x	
JDN	Neutron supply system				x	
JDP	Power supply for shutdown system				x	
JDT	Leak-off collecting system				x	
JDV	Lubricant supply system				x	
JDW	Sealing fluid supply system				x	
JDX	Fluid supply system for control and protection equipment				x	
JDY	Closed/open loop control and protection equipment				x	
JE	REACTOR COOLANT SYSTEM				x	
JEA	Reactor coolant heat exchanger				x	
	(in dual-cycle plants: steam generation system)				x	
	Limit: on primary and secondary sides				x	
	From Incl. inlet				x	
	To Incl. outlet				x	
JEB	Reactor coolant circulation pump system				x	
	From Incl. suction nozzle				x	
	To Incl. discharge nozzle				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	Limit: if circulation pumps are inside the reactor vessel:				x	
	To Excl. connection flange on reactor vessel				x	
JEC	Reactor coolant piping system (not a direct-cycle plant)				x	
	From Excl. reactor coolant heat exchanger				x	
	To Excl. reactor coolant pumps				x	
	From Excl. reactor coolant pumps outlet				x	
	To Excl. reactor vessel				x	
	From Excl. reactor vessel				x	
	To Excl. reactor coolant heat exchanger				x	
JEF	Reactor coolant pressurizing system				x	
	Limit in dual-cycle plants:				x	
	From Excl. reactor coolant piping system				x	
	To Excl. relief and safety valves				x	
JEG	Reactor coolant pressure relief system (at direct-cycle				x	
	plants see LBK)				x	
	Task: to relieve impermissible pressures in the reactor coolant				x	
	system				x	
	Limit: in dual-cycle plants:				x	
	From Excl. relief and safety valves				x	
	To Incl. relief tank and the associated recirculation				x	
	cooling equipment				x	
	Limit: In direct-cycle plants:				x	
	From Excl. reactor vessel				x	
	To Excl. pressure suppression system				x	
JET	Reactor coolant leak-off system				x	
JEV	Lubricant supply system				x	
JEW	Sealing fluid supply system				x	
JEX	Fluid supply system for control and protection				x	
JEY	Closed/open loop control and protection equipment				x	
JF	MODERATOR SYSTEM				x	
JFA	Moderator heat exchanger				x	
	Limit: on primary and secondary sides				x	
	From Incl. inlet				x	
	To Incl. outlet				x	
JFB	Moderator circulation system				x	
	From Incl. inlet nozzle				x	
	To Incl. outlet nozzle				x	
JFC	Moderator piping system				x	
	From Excl. moderator heat exchanger				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. moderator circulation system				x	
	From Excl. moderator circulation system				x	
	To Excl. moderator tank				x	
	From Incl. reactor vessel				x	
	To Excl. moderator heat exchanger				x	
JFD	Moderator tank				x	
	Task: to surround the reactor core with moderator				x	
	If enclosed in reactor vessel , identification				x	
	under reactor vessel internals				x	
JFF	Moderator pressurizing system				x	
	From Excl. moderator piping system				x	
	To Incl. relief and safety valves				x	
JFG	Moderator pressure relief system				x	
	Task: to relief impermissible pressures in the moderator system				x	
	From Excl. relief and safety valves				x	
	To Incl. recirculation cooling system				x	
JFT	Moderator leak-off system				x	
JFW	Sealing fluid supply system				x	
JFX	Fluid supply system for control and protection				x	
JFY	Closed/open loop control and protection equipment				x	
JG	SECONDARY COOLANT SYSTEM (APPLICABLE ONLY TO THREE-CYCLE-PLANTS)				x	
JGA	Secondary coolant heat exchanger (steam generation system)				x	
	Limit: on primary and secondary sides				x	
	From Incl. inlet				x	
	To Incl. outlet				x	
JGB	Secondary coolant circulating system				x	
	From Incl. inlet nozzle				x	
	To Incl. outlet nozzle				x	
JGC	Secondary coolant piping system				x	
	Limit: Excl. circulating system and heat exchangers				x	
JGF	Secondary coolant pressurizing system				x	
	From Excl. secondary coolant piping system				x	
	To Incl. relief and safety valves				x	
JGG	Secondary coolant pressure relief system				x	
	Task: to relieve impermissible pressures in the secondary				x	
	coolant system				x	
	From Excl. safety valve				x	
	To Incl. transfer point				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
JGT	Secondary coolant leak-off system				x	
JGW	Sealing fluid supply system				x	
JGX	Fluid supply system for control and protection equipment				x	
JGY	Closed/open loop control and protection equipment				x	
JK	REACTOR CORE WITH APPURTENANCES				x	
	Task: energy conversion				x	
	Scope: components to be removed during refuelling				x	
JKA	Reactor core reflector				x	
	Bottom reflector				x	
	Side reflector				x	
	Top reflector				x	
JKB	Core barrel assembly				x	
	Core barrel support structure				x	
	Lower roller support bearings				x	
	Upper radial seismic restraints				x	
	Core barrel top plate				x	
	Core barrel sides				x	
JKC	Core restraint system				x	
JKD	Subdivision (e.g. into assemblies/sections)				x	
JKE	Subdivision (e.g. into assemblies/sections)				x	
JKF	Subdivision (e.g. into assemblies/sections)				x	
JKG	Subdivision (e.g. into assemblies/sections)				x	
JKH	Subdivision (e.g. into assemblies/sections)				x	
JKJ	Subdivision (e.g. into assemblies/sections)				x	
JKK	Subdivision (e.g. into assemblies/sections)				x	
JKL	Core Barrel Conditioning System (CBCS)				x	
JKM	Subdivision (e.g. into assemblies/sections)				x	
JKN	Subdivision (e.g. into assemblies/sections)				x	
JKP	Subdivision (e.g. into assemblies/sections)				x	
JKQ	Aeroball system				x	
	Task: to measure the flux distribution in the core by means				x	
	of mobile , pictive probes				x	
JKS	In-core instrumentation systems				x	
	Task: to measure temperature and neutron flux outside the core				x	
JKT	Ex-core instrumentation system				x	
	Task: to measure temperature and neutron flux outside the core				x	
JKU	Failed fuel assemblies detection system				x	
	Task: to detect leaks in fuel assemblies cladding tubes				x	
JM	CONTAINMENT AND INTERNALS				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
JMA	Containment				x	
	Task: to retain activity released from the reactor coolant system				x	
JMC	Annulus leak-off system				x	
	Task: controlled removal of leakage from containment				x	
JME	Equipment airlock				x	
	Task: passage from compartments within the containment to the				x	
	exterior whilst maintaining the various operating conditions				x	
	Limit: weld between airlock enclosure and containment				x	
JMF	Personnel airlock				x	
	Task: passage from compartments within the containment to the				x	
	exterior whilst maintaining the various operating conditions				x	
	Limit: weld between airlock enclosure and containment				x	
JMG	Emergency airlock				x	
	Task: passage from compartments within the containment to the				x	
	exterior whilst maintaining the various operating conditions				x	
	Limit: weld between airlock enclosure and containment				x	
JMH	Construction opening				x	
	Task: passage from compartments within the containment				x	
	to the exterior				x	
	Limit: weld between construction opening and containment				x	
JMJ	Structural components inside containment (for point of				x	
	installation code only)				x	
JMK	Piping penetration (for point of installation code only)				x	
JML	Cable penetration (for point of installation code only)				x	
JMM	Leakage monitoring and leak-off system				x	
	Task: detection and controlled removal of leakages				x	
	through penetrations and other points				x	
JMN	Containment spray system				x	
	Task: to reduce pressure in containment				x	
	From Incl. storage tank				x	
	To Incl. nozzle outlet				x	
JMP	Pressure suppression system				x	
	Task: to limit pressure build-up in containment by condensation				x	
	Scope: suppression chamber incl. steam vent pipes , excl.				x	
	parts in common with the containment				x	
JMQ	Depressurisation relief ducting				x	
	Task: for depressurisation of building cavities after a pipe break event				x	
JMR	Blast rupture panel				x	
	Task: for access to pressure relief piping after a pipe break event				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
JMS	Depressurisation airtight damper				x	
	Task: to seal of building after a depressurisation event				x	
JMT	Hydrogen reduction system				x	
JMU	Hydrogen monitoring system				x	
	Task: to measure hydrogen concentration in the containment atmosphere				x	
JMV	Hydrogen mixing system				x	
	Task: to mix containment atmosphere				x	
JMW	Sealing fluid supply system				x	
JMX	Fluid supply system for control and protection equipment				x	
JMY	Closed/open loop control and protection equipment				x	
JN	RESIDUAL HEAT REMOVAL SYSTEM FOR REACTOR COOLANT SYSTEM				x	
JNA	Residual heat removal system				x	
	Task: to remove residual heat from shutdown reactor core				x	
JNB	Emergency residual heat removal system				x	
	Task: to remove residual heat from shutdown reactor core in emergencies				x	
JND	HP safety injection system#				x	
	Task: to compensate small and medium size leakages				x	
	Limit: connection to reactor coolant system				x	
JNG	LP safety injection system# , core flooding system				x	
	Task: to flood the reactor core in the event of large leaks				x	
	Limit: connection to reactor coolant system				x	
JNK	Borated water storage system				x	
	Task: to provide borated water for residual heat removal purposes				x	
JNP	Function testing system				x	
	Task: function testing of residual heat removal system during operation				x	
JNW	Sealing fluid supply system				x	
JNY	Closed/open loop control and protection equipment				x	
	# = if separate from JNA				x	
JR	REACTOR PROTECTION SYSTEM				x	
	Task: to detect and identify accident conditions and to actuate				x	
	protective actions to contain and control accidents				x	
JS	REACTOR CONTROL SYSTEM				x	
	Task: to control reactor state variables in normal operation				x	
JT	REACTOR OPERATIONAL , PROTECTIVE AND STATUS LIMITATION SYSTEM				x	
JY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	(OTHER THAN JR , JS AND JT)				x	
JYF	Loose parts monitoring system				x	
	Task: to detect loose and circulating parts by measurement of				x	
	structure-borne noise				x	
JYG	Vibration monitoring system				x	
	Task: to measure and monitor operational vibrations				x	
JYL	Fatigue monitoring system (for components , if separate system)				x	
	Task: to record and process operational data for the				x	
	purpose of fatigue monitoring				x	
K	**REACTOR AUXILIARY SYSTEM**				**x**	
KA	COMPONENT COOLING SYSTEM				x	
KAA	Component cooling system for safety-related cooling loads				x	
	Task: to absorb and remove waste heat in a separate cooling				x	
	circuit to prevent transfer of radioactivity to other				x	
	cooling circuits				x	
	From Excl. heat exchanger				x	
	To Excl. heat exchanger in the system to be cooled				x	
KAB	Component cooling system for process-related cooling loads				x	
	Task: to absorb and remove waste heat in a separate cooling				x	
	circuit to prevent transfer of radioactivity to other				x	
	cooling circuits				x	
	From Excl. heat exchanger				x	
	To Excl. heat exchanger in the system to be cooled				x	
KAC .	Component cooling system for.				x	
	Task: to absorb and remove waste heat in a separate cooling				x	
	circuit to prevent transfer of radioactivity to other				x	
	cooling circuits				x	
	From Excl. heat exchanger				x	
	To Excl. heat exchanger in the system to be cooled				x	
KAD	Emergency component cooling system				x	
	Task: to absorb and remove waste heat in a separate cooling				x	
	circuit to prevent transfer of radioactivity to other				x	
	cooling circuits in emergencies				x	
	From Excl. heat exchanger				x	
	To Excl. heat exchanger in the system to be cooled				x	
KAX	Fluid supply system for control and protection equipment				x	
KAY	Closed/open loop control and protection equipment				x	
KB	COOLANT TREATMENT				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
KBA	Level and volume control system				x	
	Task: in reactor with set liquid level:				x	
	to maintain liquid level				x	
	In reactor without set liquid level:				x	
	to compensate volume				x	
KBB	Coolant supply system				x	
	Task: to store and inject process-grade coolant				x	
	From Incl. storage tank				x	
	To Excl. fed system				x	
KBC	Boric acid and demineralized water control system				x	
	From Incl. demineralized water tank and				x	
	From Incl. boric acid storage tank				x	
	To Excl. connection to fed system				x	
KBD	Chemical control system				x	
	Task: to condition plant				x	
	From Incl. chemical mixing tank				x	
	To Excl. fed system				x	
KBE	Coolant purification system				x	
	Task: to limit coolant impurities in the coolant system				x	
KBF	Coolant treatment system (also evaporation)				x	
KBG	Coolant degasification , drying system				x	
KBH	Coolant purification regenerating system				x	
KBJ	Tritium extraction system				x	
KBK	Secondary coolant purification system (applicable only to three-cycle plant)				x	
KBL	D20/H20 purification system				x	
KBM	D20 upgrading and distribution system				x	
KBW	Sealing fluid supply system				x	
KBX	Fluid supply system for control and protection				x	
KBY	Closed/open loop control and protection equipment				x	
KH	NUCLEAR HEAT TRACING SYSTEM (NOT ELECTRIC)				x	
	Task: external heating to keep system at operating temperature				x	
KHA	Heat tracing system for reactor coolant system				x	
KHB	Heat tracing system for secondary coolant system				x	
KHC	Heat tracing system for ...				x	
KHW	Sealing fluid supply system				x	
KHX	Fluid supply system for control and protection equipment				x	
KHY	Closed/open loop control and protection equipment				x	
KJ	NUCLEAR REFRIGERANT SYSTEM				x	
KJA	Low temperature system for coolant treatment				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	Task: to supply refrigerants below 0 deg. C for coolant treatment				x	
KJB	Low temperature system for gaseous radioactive waste processing				x	
	Task: to supply refrigerants below 0 deg. C for gaseous				x	
	radioactive waste processing				x	
KJL	Chilled water system for coolant treatment				x	
	Task: to supply water at about 0 deg. C for coolant treatment				x	
KJM	Chilled water system for gaseous radioactive waste processing				x	
	Task: to supply water at about 0 deg. C for gaseous				x	
	radioactive waste processing				x	
KJN	Chilled water system for back-up coolers for...				x	
	Task: to supply water at a lower temperature than that in				x	
	the component cooling system				x	
KJP	Chilled water system for back-up coolers for...				x	
KJQ	Chilled water system for back-up coolers for...				x	
KJW	Sealing fluid supply system				x	
KJY	Closed/open loop control and protection equipment				x	
KL	Heating , ventilation, air-conditioning system (HVAC) in controlled area and exclusion area				x	
KLB	Piping - Chilled water				x	
KLD	HVAC White zone "S"				x	
KLE	HVAC White zone "N"				x	
KLF	HVAC Green zone				x	
KLG	HVAC Red zone				x	
KLH	HVAC Reactor core purging				x	
KLW	Sealing fluid supply system				x	
KLX	Fluid supply system for control and protection equipment				x	
KLY	Closed/open loop control and protection equipment				x	
KP	RADIOACTIVE WASTE PROCESSING				x	
KPA	Solid radioactive waste processing system				x	
KPB	Solid radioactive waste processing system				x	
KPC	Solid radioactive waste processing system				x	
KPD	Solid radioactive waste processing system				x	
KPE	Solid radioactive waste storage system				x	
KPF	Liquid radioactive waste processing system				x	
KPG	Liquid radioactive waste processing system				x	
KPH	Liquid radioactive waste processing system				x	
KPJ	Liquid radioactive waste processing system				x	
KPK	Liquid radioactive waste storage system				x	
KPL	Gaseous radioactive waste processing system				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
KPM	Gaseous radioactive waste processing system				x	
KPN	Gaseous radioactive waste processing system				x	
KNP	Gaseous radioactive waste processing system				x	
KPQ	Gaseous radioactive waste storage system				x	
KPW	Sealing fluid supply system				x	
KPY	Closed/open loop control and protection equipment				x	
KR	NUCLEAR GAS SUPPLY AND DISPOSAL#				x	
KRA	Blanket gas supply				x	
KRB	Blanket gas supply				x	
KRC	Blanket gas supply				x	
KRJ	Inert gas supply				x	
KRK	Inert gas supply				x	
KRL	Inert gas supply				x	
KRP	Gas supply				x	
KRR	Gas supply				x	
KRQ	Gas supply				x	
KRY	Closed/open loop control and protection equipment				x	
	# See SE for welding blanket gas system				x	
KT	Nuclear collecting and disposal system (also for venting)				x	
	Task: controlled collection and disposal of fluids				x	
	From Incl. header				x	
	To Excl. radioactive waste processing or coolant				x	
	treatment system				x	
KTA	Collecting system for disposal (drained and vented fluids)				x	
to					x	
KTU	Collecting system for disposal (drained and vented fluids)				x	
KTY	Closed/open loop control and protection equipment				x	
KU	NUCLEAR SAMPLING SYSTEM				x	
	Task: to extract and supply samples of fluids for measurement purposes				x	
KUA	Sampling system (liquid)				x	
KUB	Sampling system (liquid)				x	
KUC	Sampling system (liquid)				x	
KUD	Sampling system (liquid)				x	
KUE	Sampling system (liquid)				x	
KUF	Sampling system (gaseous)				x	
KUG	Sampling system (gaseous)				x	
KUH	Sampling system (gaseous)				x	
KUJ	Sampling system (gaseous)				x	
KUK	Sampling system (gaseous)				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
KUL	Fault sampling system				x	
	Task: to extract sample from the reactor containment				x	
KUM	Fault sampling system				x	
KUN	Fault sampling system				x	
KUY	Closed/open loop control and protection equipment				x	
KW	Nuclear sealing and flushing fluid supply system				x	
	Task: to supply fluids for sealing and flushing				x	
	From Incl. storage tank				x	
	To Excl. fed system				x	
KWY	Closed/open loop control and protection equipment				x	
L	**STEAM , WATER , GAS CYCLE**	**x**			**x**	**x**
LA	FEED WATER SYSTEM	x			x	x
LAA	Feed water tank , deaerating	x			x	x
	From Incl. deaerating installation or feed water tank inlet	x			x	x
	To Incl. tank outlet incl. heating installation and vapour condenser	x			x	x
LAB	Feed water piping system (incl. interconnecting piping in	x			x	x
	feed water pumping system and feed water heating)	x			x	x
	From Excl. feed water tank outlet	x			x	x
	To Excl. boiler inlet header	x			x	x
LAC	Feed water pumping system (excl. interconnecting piping	x			x	x
	between booster and main pump)	x			x	x
	From Incl. pumping system suction nozzle	x			x	x
	To Incl. pumping system discharge nozzle	x			x	x
LAD	Feed water heating system (HP heaters)	x			x	x
	From Incl. heater inlet	x			x	x
	To Incl. heater outlet incl. desuperheater and drain cooler when integral part of heater	x			x	x
LAE	HP bypass water injection system	x			x	x
	Superheater attemporator spray system , HP bypass spray system)	x			x	x
	From Excl. feed water piping system	x			x	x
	To Excl. user (e.g. superheater attemporator)	x			x	x
LAF	Intermediate pressure water injection system (reheater attemporator spray system)	x			x	x
	From Excl. Feedwater pump extraction (take-off connection) or	x			x	x
	From Excl. branch of another system	x			x	x
	To Excl. user (e.g. reheater attemporator)	x			x	x
LAH	Start-up and shut-down piping system (e.g. filling system)	x			x	x
	From Excl. outlet of another system	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. feed water system intake (e.g. feed water tank)	x			x	x
LAJ	Start-up and shut-down pumping system (e.g. filling system)	x			x	x
	From Incl. pump suction flange	x			x	x
	To Incl. pump discharge flange	x			x	x
LAR	Emergency feed water piping system incl. storage	x			x	x
	(excl. emergency feed water pumping system)*	x			x	x
	From Excl. junction from another system	x			x	x
	To Excl. feed water piping system intake	x			x	x
LAS	Emergency feed water pumping system*	x			x	x
	From Incl. pump suction flange	x			x	x
	To Incl. pump discharge flange	x			x	x
LAT	Emergency feed water system (nuclear)*	x			x	x
	From Excl. branch of another system	x			x	x
	To Excl. feed water piping system inlet	x			x	x
LAW	Feedwater sealing water system	x			x	x
LAX	Control medium supply for closed/open loop control and protection equipment	x			x	x
LAY	Closed/open loop control and protection equipment	x			x	x
LB	STEAM SYSTEM	x			x	x
LBA	Main steam piping system	x			x	x
	From Excl. boiler outlet header or steam generator outlet or	x			x	x
	From Excl. heat exchanger	x			x	x
	To Excl. HP turbine inlet valve station or	x			x	x
	HP bypass station	x			x	x
	To Excl. turbine bypass or other user (system)	x			x	x
LBB	Hot reheat piping system	x			x	x
	From Excl. reheater outlet header	x			x	x
	To Excl. IP turbine valve station or IP/LP bypass	x			x	x
	station or other user (system)	x			x	x
LBC	Cold reheat piping system	x			x	x
	From Excl. HP turbine outlet or HP bypass station	x			x	x
	To Excl. reheater inlet header or other user (system)	x			x	x
LBD	Tapping piping system (extraction)*	x			x	x
	From Excl. by-pass piping system junction	x			x	x
	To Excl. user (system)	x			x	x
LBE	Back-pressure piping system*	x			x	x
	From Excl. turbine outlet	x			x	x
	To Excl. user (system)	x			x	x
LBF	HP bypass station	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
LBG	Auxiliary steam piping system	x			x	x
	From Excl. branch off from another system (auxiliary boiler)	x			x	x
	To Excl. user (system)	x			x	x
LBH	Start-up steam system , shut-down steam system (warming-up)	x			x	x
	From Excl. boiler outlet or	x			x	x
	From Excl. branch off main steam line incl.	x			x	x
	start-up flash tank or start-up condenser or	x			x	x
	From Excl. outlet to other system	x			x	x
	To Excl. inlet to other system	x			x	x
LBJ	Moisture separator / reheater	x			x	x
	From Incl. inlet	x			x	x
	To Incl. outlet	x			x	x
LBK	Main steam safety / relief system inside reactor containment for single plants	x			x	x
	Task: to limit pressure in the main steam system LBA	x			x	x
	From Excl. branch off main steam piping system	x			x	x
	To Excl. pressure suppression system	x			x	x
LBQ	Bled steam piping for feed water heating (HP system)	x			x	x
	From Excl. turbine outlet or other connection system	x			x	x
	To Excl. feed water heater or other users	x			x	x
LBR	Piping system for auxiliary turbine*	x			x	x
	From Excl. branch off main turbine or	x			x	x
	From Excl. branch off another system or	x			x	x
	From Excl. branch or auxiliary turbine outlet	x			x	x
	To Excl. branch off or auxiliary turbine isolating valve	x			x	x
	or	x			x	x
	To Excl. inlet to another system	x			x	x
LBS	Bled steam system for main condensate heating (LP-system)	x			x	x
	From Excl. turbine outlet or other connection system	x			x	x
	To Excl. main condensate heater or (LP-heater) feed water	x			x	x
	tank / deaerator or other user	x			x	x
LBT	Emergency condensation*	x			x	x
	From Excl. steam generation outlet	x			x	x
	From Excl. main steam piping system branch incl. condenser	x			x	x
	To Excl. inlet into another system	x			x	x
LBU	Common steam dump piping	x			x	x
LBW	Sealing steam system	x			x	x
LBX	Control medium supply for closed/open loop control and protection equipment	x			x	x
LBY	Closed/open loop control and protection equipment	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
LC	CONDENSATE SYSTEM	x			x	x
LCA	Main condensate piping system (excl. main condensate	x			x	x
	pumping system , main condensate heating , LP heater ,	x			x	x
	condensate polishing)	x			x	x
	From Excl. condensate tank outlet (hotwell) and other system	x			x	x
	To Excl. deaerator inlet	x			x	x
LCB	Main condensate pumping system (extraction pump)	x			x	x
	From Incl. pumping system suction nozzle	x			x	x
	To Incl. pumping system discharge nozzle	x			x	x
LCC	Main condensate heater system (LP heaters)	x			x	x
	From Incl. heater inlet	x			x	x
	To Incl. heater outlet incl. desuperheater and	x			x	x
	cooler when integral part of heater	x			x	x
LCE	Low pressure water injection system (for IP/LP by-pass system)	x			x	x
	From Excl. condensate piping system or	x			x	x
	From Excl. condensate auxiliary condensate piping system	x			x	x
	To Excl. user (e.g. IP/LP by-pass station)	x			x	x
LCF	Auxiliary turbine condensate piping system*	x			x	x
	From Excl. condenser outlet	x			x	x
	To Excl. feed into another system excl. branch	x			x	x
	turbine condensate pumping system	x			x	x
LCG	Auxiliary turbine condensate pumping system*	x			x	x
	From Incl. pump suction nozzle	x			x	x
	To Incl. pump discharge nozzle	x			x	x
LCH	High pressure heater distillate (condensate) system	x			x	x
	(HP heater drain system, incl. drain cooler)	x			x	x
	From Excl. HP heater outlet	x			x	x
	To Excl. inlet to another system	x			x	x
LCJ	Main condensate heater distillate (condensate) system	x			x	x
	(LP heater drain system , incl. drain cooler and flash box)	x			x	x
	From Excl. LP heater outlet	x			x	x
LCL	Condensate drain system from steam generator , blow-down system	x			x	x
	From Excl. pressure system branch or*	x			x	x
	From Excl. start-up releaser or*	x			x	x
	From Excl. blow-down vessel	x			x	x
	To Excl. feed into another system	x			x	x
LCM	Drainage , dewatering condensate system (clean drain collecting	x			x	x
	and return system)	x			x	x
	From Incl. low pressure flash/collection tank or	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. last drainage component or	x			x	x
	From Excl. another collection system	x			x	x
	To Excl. feed into another system	x			x	x
LCN	Auxiliary steam condensate system (collecting and return system)	x			x	x
	From Excl. (steam) - user	x			x	x
	To Excl. feed into another system	x			x	x
LCP	Reserve condensate system incl. storage , piping and pumping	x			x	x
	From Excl. branch off another system	x			x	x
	To Excl. feed into another system	x			x	x
LCQ	Steam generator blow-down system (incl. unit start-up drains)	x			x	x
	From Excl. steam generator outlet	x			x	x
	From Incl. blow-down flashtank (caustic flashtank)	x			x	x
	To Excl. feed into another system	x			x	x
LCR	Reserve condensate distribution system*	x			x	x
	From Excl. branch off another system	x			x	x
	To Excl. feed into another system	x			x	x
LCS	Reheater-condensate system (moisture separator/reheater)*	x			x	x
	From Excl. reheater	x			x	x
	To Excl. feed into another system	x			x	x
LCT	Moisture separator drains system (moisture separator/reheater)*	x			x	x
	From Excl. water separator	x			x	x
	To Excl. feed into another system	x			x	x
LCW	Sealing and cooling condensate system	x			x	x
	From Excl. branch off another system	x			x	x
	To Excl. user , incl. return line	x			x	x
LCX	Control medium supply for closed/open loop control and protection equipment	x			x	x
LCY	Closed/open loop control and protection equipment	x			x	x
LD	CONDENSATE POLISHING PLANT	x			x	x
LDA	Fluid treatment extraction (if not part another system)	x			x	x
	From Excl. fluid treatment system outlet	x			x	x
	To Excl. inlet into another system	x			x	x
LDB	Filtering , mechanical purification	x			x	x
	From Incl. separator equipment inlet	x			x	x
	To Incl. separator equipment outlet	x			x	x
LDC	Ventilation , gas injection	x			x	x
	From Excl. atmosphere or	x			x	x
	From Incl. gas supply	x			x	x
	To Excl. inlet to another system	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
LDD	Precipitation (e.g. decarbonisation) (flocculation)	x			x	x
	From Incl. precipitation inlet	x			x	x
	To Incl. precipitation outlet	x			x	x
LDE	Acid dosing (e.g. decarbonisation)	x			x	x
	From Incl. acid dosing equipment or	x			x	x
	From Excl. chemical supply branch	x			x	x
	To Excl. any other system inlet	x			x	x
LDF	Ion exchanger (e.g. desalination)	x			x	x
	From Incl. ion exchanger inlet	x			x	x
	To Incl. ion exchanger outlet	x			x	x
LDG	Evaporation (e.g. desalination)	x			x	x
	From Incl. feedwater inlet	x			x	x
	To Incl. steam outlet and	x			x	x
	From Incl. hot steam inlet	x			x	x
	To Incl. condensate outlet	x			x	x
LDH	Degasification , drying	x			x	x
	From Incl. degasifier , tank inlet	x			x	x
	To Incl. tank outlet incl. heating equipment for steam condenser	x			x	x
LDJ	Heating , cooling	x			x	x
	From Incl. heater , cooler inlet	x			x	x
	To Incl. heater , cooler outlet	x			x	x
LDK	Internal piping , intermediate storage , pump system for main medium	x			x	x
	Internal piping:	x			x	x
	From Excl. outlet of another system	x			x	x
	To Excl. inlet into another system	x			x	x
	To Incl. outlet medium treatment	x			x	x
	Intermediate storage:	x			x	x
	From Incl. inlet intermediate storage	x			x	x
	To Incl. outlet intermediate storage	x			x	x
	Pump system:	x			x	x
	From Incl. suction flange of pumping system	x			x	x
	To Incl. discharge flange of pumping system	x			x	x
LDL	Storage not included in medium treatment (if not part of another system)	x			x	x
	From Incl. storage plant inlet	x			x	x
	To Incl. storage plant outlet	x			x	x
LDN	Chemical supply system	x			x	x
	From Incl. extraction point or	x			x	x
	From Incl. storage tank	x			x	x
	To Excl. transfer to another system	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
LDP	Regeneration and purging equipment	x			x	x
	From Incl. system inlet	x			x	x
	To Excl. injection into another system	x			x	x
	From Excl. chemical supply , auxiliary medium supply and	x			x	x
	purging air supply	x			x	x
	To Incl. regeneration purging equipment	x			x	x
LDQ	Injection device for main medium	x			x	x
	From Incl. injection device or	x			x	x
	From Excl. chemical supply junction	x			x	x
	To Incl. inlet into another system	x			x	x
LDR	Flushing water and residue removal incl. neutralisation	x			x	x
	From Excl. system concerned outlet	x			x	x
	To Excl. transfer point of another system	x			x	x
LDS	Sludge thickener	x			x	x
	From Excl. system concerned outlet	x			x	x
	To Excl. transfer point of another system	x			x	x
LDT	Heating , cooling and flushing medium distribution	x			x	x
	From Incl. heating , cooling and flushing medium	x			x	x
	production or	x			x	x
	From Excl. heating , cooling and flushing medium supply junction	x			x	x
	To Excl. consumer and	x			x	x
	From Excl. consumer	x			x	x
LDX	Control medium supply for closed/open loop control and protection equipment	x			x	x
LDY	Closed/open loop control and protection equipment	x			x	x
LF	COMMON INSTALLATION FOR STEAM , WATER , GAS CYCLE	x			x	x
LFC	Common drain and vent system	x			x	x
LFG	Secondary side steam generator tube lancing system	x			x	x
	From Excl. primary coolant heat exchanger outlet	x			x	x
	To Excl. primary coolant heat exchanger inlet	x			x	x
LFJ	Steam generator and standby conservation	x			x	x
LFN	Dosing system for feedwater and condensate cycle , incl.	x			x	x
	dosing in the vessel and turbine area	x			x	x
LK	GAS CYCLE (CLOSED SYSTEM)	x			x	x
LKA	Storage	x			x	x
	From Excl. gas supply intake	x			x	x
	To Excl. piping system inlet	x			x	x
LKB	Piping system	x			x	x
	From Excl. gas heater outlet	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. gas heater inlet excl. turbine , compressor , heater, cooler	x			x	x
LKC	Compressor system (if separated from gas-turbine)	x			x	x
	From Incl. compressor system inlet	x			x	x
	To Incl. compressor system outlet	x			x	x
LKD	Heater	x			x	x
	From Incl. heater inlet	x			x	x
	To Incl. heater outlet	x			x	x
LKE	Cooler	x			x	x
	From Incl. cooler inlet	x			x	x
	To Incl. cooler outlet	x			x	x
LKF	Intermediate cooler	x			x	x
	From Incl. intermediate cooler inlet	x			x	x
	To Incl. intermediate cooler outlet	x			x	x
LKG	Pressurising	x			x	x
	From Incl. pressurising system inlet	x			x	x
	To Incl. inlet piping system	x			x	x
LKW	Seal medium supply	x			x	x
LKX	Control medium supply for closed/open loop control and protection equipment	x			x	x
LKY	Closed/open loop control and protection equipment	x			x	x
LL	GAS PURIFICATION (CLOSED SYSTEM ONLY)	x			x	x
LLH	Primary loop clean-up	x			x	x
LN	DAM SYSTEM FOR HYDRO POWER PLANT			x		
LNA	Intake system			x		
	From Excl. dam (incl. measurement equipment)			x		
LNB	Trash screening , deposit removal system			x		
	To Excl. inlet into another system			x		
LNC	Dam , weir installation			x		
	Dam:			x		
	From Incl. foundation/wall			x		
	To Incl. crest incl. inspection measurement equipment			x		
	Weir:			x		
	From Incl. inlet			x		
	To Incl. discharge into another system			x		
LNE	Bottom outlet			x		
	From Incl. bottom inlet equipment			x		
	To Incl. bottom outlet equipment			x		
LNW	Sealing medium supply			x		
LNX	Control medium supply for closed/open loop control and protection			x		

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	equipment					
LNY	Closed/open loop control and protection equipment			x		
LP	INTAKE HEAD WATER SYSTEM FOR HYDRO POWER PLANT			x		
LPA	Intake screen/deposit removal , rake system			x		
	From Excl. intake gate inlet			x		
	To Incl. outlet into another system			x		
LPB	Intake gate			x		
	From Incl. intake gate inlet			x		
	To Incl. outlet into another system			x		
LPC	Water flow piping and channel system (penstock)			x		
	From Excl. intake gate			x		
	To Excl. turbine inlet system , incl. piping			x		
	connection for pumping system			x		
	To Incl. bifurcation system			x		
LPE	Surge shaft			x		
LPW	Sealing system			x		
LPX	Control medium supply for closed/open loop control and protection equipment			x		
LPY	Closed/open loop control and protection equipment			x		
LQ	OUTLET LOWER WATER SYSTEM FOR HYDRO POWER PLANT			x		
LQA	Tail race piping and channel system			x		
	From Excl. turbine outlet			x		
	To Incl. discharge into another system (incl. return pump system)			x		
LQB	Surge chamber			x		
LQC	Outlet gate			x		
	From Incl. inlet			x		
	To Incl. outlet into another system			x		
LQE	Screen/rake installation for pump operation			x		
	From Incl. screen/rake installation inlet			x		
	To Incl. outlet into another system			x		
LQW	Sealing system			x		
LQX	Control medium supply for closed/open loop control and protection equipment			x		
LQY	Closed/open loop control and protection equipment			x		
LR	BY-PASS SYSTEM FOR HYDRO POWER PLANT			x		
LRA	Sluice			x		
	From Incl. sluice inlet			x		
	To Incl. sluice outlet			x		
LRB	Hoisting equipment*			x		

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
LRC	Fish pass*			x		
LRE	Wood raft duct , channel*			x		
LRW	Sealing medium supply			x		
LRX	Control medium supply for closed/open loop control and protection equipment			x		
LRY	Closed/open loop control and protection equipment			x		
LS	COMMON INSTALLATION FOR HYDRO POWER PLANT			x		
LSL	Draining/dewatering system			x		
LW	SEALING FLUID SUPPLY SYSTEM FOR STEAM , WATER , GAS CYCLES			x		
LY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT (MAINLY	x		x		x
	USED FOR CONDENSATE POLISHING PLANT IN ESKOM)	x		x		x
LYA	Control desk in control room	x		x		x
LYB	Control panel in control room	x		x		x
LYC	Local control panel , desk and solenoid operated valve panel	x		x		x
LYD	PLC	x		x		x
LYE	Spare	x		x		x
LYF	Equipment room cubicle	x		x		x
LYG	Marshalling panel	x		x		x
LYH	Measurement rack	x		x		x
LYJ	Spare	x		x		x
LYK	DC supply incl. associated equipment	x		x		x
LYL	AC supply and distribution	x		x		x
LYQ	Computer equipment	x		x		x
LYW	Common equipment	x		x		x
LYX	Common equipment	x		x		x
LYY	Common equipment	x		x		x
LYZ	Common equipment	x		x		x
M	**MAIN MACHINE SET**	**x**			**x**	**x**
MA	STEAM TURBINE PLANT	x			x	x
MAA	High pressure turbine	x			x	x
	From Incl. inlet device (emergency stop valve or combined	x			x	x
	emergency stop valve or control valve)	x			x	x
	To Incl. extraction , tapping and steam exhaust nozzle	x			x	x
	To Incl. the interface of another system within the turbine	x			x	x
MAB	Intermediate pressure turbine	x			x	x
	From Incl. crossover pipe incl. control elements* or	x			x	x
	From Incl. intercept valve	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Incl. extraction , tapping and steam exhaust nozzle	x			x	x
	To Incl. the interface of another system within the turbine	x			x	x
MAC	Low pressure turbine	x			x	x
	From Incl. crossover pipe incl. control elements or	x			x	x
	From Incl. intercept valve or steam inlet nozzle (in reheat installation without intercept valves)	x			x	x
	To Incl. extraction , tapping and steam exhaust nozzle and	x			x	x
	To Incl. the interface of another system within the turbine	x			x	x
MAD	Bearing assembly	x			x	x
MAG	Condensing system	x			x	x
	From Incl. condenser neck or inlet nozzle	x			x	x
	To Incl. condenser outlet nozzle incl.	x			x	x
	instrumentation equipment associated with the condenser	x			x	x
	(incl. hotwell or directly connected tanks/vessels	x			x	x
	or total air cooled condensing system)					
MAH	Air ejector motive water system (if fitted separately from MAJ)	x			x	x
	From Incl. outlet of another system	x			x	x
	To Incl. ejector inlet	x			x	x
MAJ	Air evacuation system	x			x	x
	From Excl. condenser outlet or outlet of another system	x			x	x
	To Excl. atmosphere or another system	x			x	x
MAK	Transmission gear between prime mover and driven machine	x			x	x
MAL	Turbine drain and vent system	x			x	x
	From Incl. collection point or outlet of another system	x			x	x
	From Incl. last drain valve	x			x	x
	To Excl. inlet to drain collection vessel or inlet	x			x	x
	to another system	x			x	x
MAM	Leak-off steam system	x			x	x
	From Excl. branch or leak-off point	x			x	x
	To Excl. inlet into another system	x			x	x
MAN	IP/LP bypass station (incl. attemporation spray system)	x			x	x
	From Incl. IP/LP bypass isolating valve and	x			x	x
	From Incl. attemporation spray valve	x			x	x
	To Excl. steam inlet in condenser or another system	x			x	x
MAP	LP bypass station*	x			x	x
	From Excl. bypass unit and branch off steam system	x			x	x
	To Excl. condenser	x			x	x
MAQ	Vent system (if fitted separately from (MAL)	x			x	x
	From Incl. deaerator unit	x			x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. inlet into another system or atmosphere	x			x	x
MAV	Lubrication oil supply system	x			x	x
	From Incl. dedicated lubrication oil tank or common oil	x			x	x
	tank or	x			x	x
	From Excl. lubricant supply branch	x			x	x
	To Excl. user and return	x			x	x
	From Excl. user	x			x	x
MAW	Gland steam heating and cooling system	x			x	x
	From Excl. branch or leak-off pint at casing nozzle	x			x	x
	To Excl. steam gland user	x			x	x
	To Excl. condenser and gland leak-off system or	x			x	x
	To Incl. gland sealing steam condenser or	x			x	x
	To Excl. heating and cooling steam user in each case	x			x	x
MAX	Non-electric control and protection equipment incl.	x			x	x
	medium supply system	x			x	x
MAY	Closed/open loop control and protection equipment	x			x	x
MB	GAS TURBINE PLANT		x			
MBA	Turbine and compressor , rotors with combined casing		x			
	From Incl. compressor inlet		x			
	From Incl. compressor outlet		x			
	From Incl. turbine inlet		x			
	To Incl. turbine outlet incl. exhaust gas diffuser		x			
MBB	Turbine casing and rotor		x			
	From Incl. turbine inlet		x			
	To Incl. turbine outlet incl. exhaust gas diffuser		x			
MBD	Bearing assembly		x			
MBH	Cooling and sealing gas system		x			
	From Incl. inlet		x			
	To Excl. user and		x			
	From Excl. user incl. extraction system		x			
	To Incl. inlet to another system		x			
MBJ	Starting up equipment		x			
MBK	Transmission gear between prime mover and driven machine		x			
MBL	Suction and cold gas system (open system , air inlet system)		x			
	From Incl. atmosphere		x			
	To Excl. combustion chamber or		x			
	To Excl. exhaust gas heat exchanger and		x			
	To Excl. compressor		x			
MBM	Combustion chamber		x			

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. cold gas and fuel inlet		x			
	To Incl. hot gas outlet		x			
MBN	Fuel supply (liquid)		x			
	From Excl. main supply pipe branch or		x			
	From Incl. intermediate tank		x			
	To Excl. combustion chamber or		x			
	To Excl. operating gas generator unit incl.		x			
	fuel return		x			
MBP	Fuel supply (gas)		x			
	From Excl. main supply pipe branch		x			
	To Excl. combustion chamber or		x			
	To Excl. operating gas generation unit		x			
MBQ	Ignition fuel supply (if separate)		x			
	From Excl. main supply pipe branch		x			
	From Incl. tank		x			
	To Excl. combustion chamber or		x			
	To Excl. operating gas generator unit		x			
MBR	Exhaust gas system (open system , gas outlet system)		x			
	From Excl. combustion chamber or		x			
	From Excl. exhaust gas diffuser		x			
	To Excl. atmosphere inlet or		x			
	To Excl. inlet into another system (e.g. air of combustion system)		x			
MBS	Storage system (air receiver)		x			
	To Incl. air receiver inlet and		x			
	From Excl. connection to main circuit		x			
MBT	(Operating) gas generator unit incl. combustion chamber		x			
	From Incl. air/fuel intake		x			
	To Incl. operating gas outlet from operating gas generator unit		x			
MBU	Additive system		x			
	From Incl. supply		x			
	To Incl. injection		x			
MBV	Lubrication supply system		x			
	From Incl. lubricator , common lubricant and control medium tank or		x			
	From Excl. control medium supply branch		x			
	To Excl. user and		x			
	From Excl. user		x			
MBW	Seal oil system		x			
	From Incl. seal oil tank or		x			
	From Excl. intake flange of seal oil pump		x			

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. user and		x			
	From Excl. user		x			
MBX	Non-electric control and protection equipment incl.		x			
	medium supply system		x			
MBY	Closed/open loop control and protection equipment		x			
ME	HYDRO TURBINE PLANT			x		
MEA	Hydro turbine (spiral casing , shaft , runner, etc)			x		
	From Excl. turbine inlet or			x		
	From Excl. inlet valve			x		
	To Incl. turbine outlet or			x		
	To Excl. draft tube gate of			x		
	To Excl. tail race			x		
MEB	Hydro turbine inlet valve			x		
	From Incl. inlet of valve			x		
	To Incl. outlet of valve			x		
MED	Bearing assembly			x		
MEG	Stabilising air system (aeration)			x		
	From Incl. air compressor			x		
	To Incl. air injection valve			x		
MEK	Transmission gear between prime mover and driven machine			x		
MEL	Water depression air supply system (blowdown)			x		
	From Incl. air compressor/vessel			x		
	To Incl. injection valve to turbine incl. Air exhaust			x		
MEV	Lubrication medium supply system			x		
	From Incl. lubrication medium tank			x		
	To Excl. user and			x		
	From Excl. user			x		
MEW	Sealing water system			x		
	From Incl. main isolating valve			x		
	To Excl. sealing water consumer casing			x		
MEX	Control medium supply for closed/open loop control and			x		
	protection equipment			x		
MEY	Closed/open loop control and protection equipment			x		
MF	HYDRO TURBINE PUMPING UNIT IN PUMPED STORAGE POWER SCHEME			x		
MFA	Pump turbine (spiral , casing , shaft , runner , etc)			x		
	From Excl. pump inlet or			x		
	From Excl. inlet valve			x		
	To Excl. pump outlet			x		

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. draft tube			x		
	To Excl. tail race			x		
MFB	Pump turbine inlet valve			x		
	From Incl. inlet of valve			x		
	To Incl. outlet of valve			x		
MFD	Bearing assembly			x		
MFG	Stabilising air system (aeration)			x		
	From Incl. air compressor			x		
	To Incl. air injection valve			x		
MFK	Transmission gear between prime mover and driven machine			x		
MFL	Water depression air supply system (blowdown)			x		
	From Incl. air compressor/vessel			x		
	To Incl. injection valve to pump turbine incl.			x		
	air exhaust			x		
MFM	Start-up equipment (non-electrical)			x		
MFV	Lubrication medium and hydraulic oil supply system			x		
	From Incl. lubrication medium tank			x		
	To Excl. user and			x		
	From Excl. user			x		
MFW	Sealing water system			x		
	From Incl. main isolating valve			x		
	To Excl. sealing water consumer casing			x		
MFX	Control medium supply for closed/open loop control and			x		
	protection equipment			x		
MFY	Closed/open loop control and protection equipment			x		
MG	WATER STORAGE PUMPING UNIT			x		
MGA	Water storage pump (spiral casing , shaft , runner , etc)			x		
	From Excl. pump inlet			x		
	From Excl. inlet valve			x		
	To Incl. pump outlet or			x		
	To Excl. gate/valve			x		
MGB	Storage pump inlet valve			x		
	From Incl. inlet			x		
	To Incl. outlet			x		
MGD	Bearing assembly			x		
MGL	Water depression air supply system (blowdown)			x		
	From Incl. air compressor/vessel			x		
	To Excl. injection valve to pump turbine incl. air exhaust			x		
MGM	Start-up equipment (non-electrical)			x		

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
MGV	Lubrication medium supply system			x		
	From Incl. lubrication medium tank			x		
	To Excl. user and			x		
	From Excl. user			x		
MGW	Sealing water system			x		
	From Incl. main isolating valve			x		
	To Excl. sealing water consumer casing			x		
MGX	Control medium supply for closed/open loop control and			x		
	protection equipment			x		
MGY	Closed/open loop control and protection equipment			x		
MJ	DIESEL ENGINE UNIT					
MJA	Engine					
	From Incl. inlet to fuel nozzle and					
	From Incl. air inlet stud and					
	From Incl. cooling water inlet manifold					
	To Incl. exhaust stud and					
	To Incl. water outlet stud incl. internal system					
MJB	Turbo charger , blower					
	From Incl. turbo charger/blower inlet					
	To Incl. turbo charger/blower outlet					
MJG	Liquid cooling system					
	From Excl. engine cooling water outlet stud and					
	From Incl. charging air cooling system inlet					
	To Excl. engine cooling water inlet stud and					
	To Excl. charging air cooling system outlet					
MJH	Intermediate air cooling system					
	From Incl. inlet to intermediate cooler					
	To Excl. outlet of intermediate cooler					
	To Excl. transfer point of another cooling system					
MJK	Transmission gear between prime mover and driven machine					
MJN	Fuel system					
	From Incl. intermediate storage					
	From Excl. piping system branch					
	To Excl. fuel inlet nozzle					
MJP	Starting up equipment (flywheel)					
MJQ	Air suction system					
	From Excl. atmosphere					
	To Excl. charge and					
	To Excl. engine inlet stud					

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
MJR	Gas exhaust system					
	From Excl. outlet of engine exhaust stud					
	To Incl. atmosphere					
MJV	Lubrication supply system					
	From Incl. lubricator , common lubricant and medium tank					
or						
	From Excl. control medium supply branch					
	To Excl. user and					
	From Excl. user					
MJX	Control medium supply for closed/open loop control and					
	protection equipment					
MJY	Closed/open loop control and protection equipment					
MK	GENERATOR	x	x	x	x	x
MKA	Generator casing incl. stator and rotor incl. all	x	x	x	x	x
	internal cooling equipment	x	x	x	x	x
	To Incl. generator bushing and balancing tank	x	x	x	x	x
MKB	Excitation (use only if "MKC" is insufficient)	x	x	x	x	x
MKC	Excitation	x	x	x	x	x
MKD	Bearing assembly	x	x	x	x	x
MKF	Liquid cooling (except oil cooling) incl. intermediate cooler	x	x	x	x	x
	From Excl. stator/rotor outlet	x	x	x	x	x
	To Excl. stator/rotor inlet	x	x	x	x	x
MKG	Stator/rotor gas cooling (except N2 cooling) incl. H2 and CO2 supply	x	x	x	x	x
	From Excl. stator/rotor outlet	x	x	x	x	x
	To Excl. stator/rotor inlet	x	x	x	x	x
MKH	Stator/rotor N2 cooling incl. N2 supply	x	x	x	x	x
	From Excl. stator/rotor outlet	x	x	x	x	x
	To Excl. stator/rotor inlet incl. N2 supply	x	x	x	x	x
MKJ	Stator/rotor Air cooling system	x	x	x	x	x
	From Excl. stator/rotor outlet	x	x	x	x	x
	To Excl. stator/rotor inlet	x	x	x	x	x
MKQ	Exhaust gas system (if fitted separately from MKG and MKH)	x	x	x	x	x
MKU	Oil cooling system incl. intermediate cooling circuits	x	x	x	x	x
	From Excl. stator plate core outlet	x	x	x	x	x
	To Excl. stator plate core inlet	x	x	x	x	x
MKV	Lubricating supply system (if fitted separately for	x	x	x	x	x
	the generator)	x	x	x	x	x
MKW	Seal oil system incl. supply and treatment plant	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Excl. seal oil system branch	x	x	x	x	x
	To Excl. stator inlet and	x	x	x	x	x
	From Excl. stator outlet	x	x	x	x	x
	To Excl. inlet into another system , or in closed system	x	x	x	x	x
	From Excl. stator outlet (incl. supply and treatment plant)	x	x	x	x	x
	To Excl. stator inlet	x	x	x	x	x
MKY	Closed/open loop control and protection equipment	x	x	x	x	x
ML	ELECTRO-MOTIVE UNIT (INCL. MOTOR-GENERATOR)			x		
MLA	Motor , motor-generator casing incl. stator and rotor			x		
	To Incl. motor , motor-generator penetration incl.			x		
	all internal cooling equipment			x		
MLC	Excitation			x		
MLD	Bearing assembly			x		
MLF	Liquid cooling (except oil cooling) incl. intermediate			x		
	cooler and expansion equipment			x		
	From Excl. stator/rotor outlet			x		
	To Excl. stator/rotor inlet			x		
MLG	Gas cooling (except N2 cooling) incl. H2 and CO2 supply			x		
	From Excl. stator/rotor outlet			x		
	To Excl. stator/rotor inlet			x		
MLH	N2 cooling incl. N2 supply			x		
	From Excl. stator/rotor outlet			x		
	To Excl. stator/rotor inlet			x		
MLQ	Gas exhaust system (if fitted separately from MLG and MLH)			x		
MLU	Oil cooling system incl. intermediate cooling circuits			x		
	From Excl. stator assembly outlet			x		
	To Excl. stator assembly inlet			x		
MLV	Lubricating supply system (if fitted separately for electro-motive unit)			x		
MLW	Sealing oil system incl. supply and treatment plant			x		
	From Excl. sealing oil branch			x		
	To Excl. stator inlet and			x		
	From Excl. stator outlet			x		
	To Excl. inlet in another system at closed system			x		
	From Excl. stator outlet (incl. supply and treatment plant)			x		
	To Excl. stator inlet			x		
MLX	Control medium supply for closed/open loop control and protection			x		
	equipment.			x		
MLY	Closed/open loop control and protection equipment			x		
MM	COMPRESSOR UNIT					

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
MMA	Compressor (incl. compressor internal system)					
	From Incl. air inlet , cooling medium					
	To Incl. air outlet , cooling medium					
MMC	Air suction piping system					
	From Excl. atmosphere					
	To Excl. compressor inlet					
MMD	Bearing assembly					
MME	Intermediate cooling system					
MMF	After cooling system					
MMG	End cooling system					
MMH	Pressure piping system					
	From Excl. compressor outlet					
	To Excl. inlet into another system					
MMV	Lubrication supply system					
MMW	Seal medium supply					
MMX	Control medium supply for closed/open loop and protection equipment					
MMY	Closed/open loop control and protection equipment					
MP	COMMON EQUIPMENT FOR MAIN MACHINE SET	x	x	x	x	x
MPA	Foundation	x	x	x	x	x
MPB	Cowling	x	x	x	x	x
MPG	Rack , support	x	x	x	x	x
MPR	Forced air cooling system	x	x	x	x	x
MPS	Drying and preservation system	x	x	x	x	x
MR	GAS ENGINE PLANT					
MV	LUBRICATION MEDIUM SUPPLY	x	x	x	x	x
MVA	Lubrication oil supply system	x	x	x	x	x
	From Incl. common lubrication oil	x	x	x	x	x
	tank or	x	x	x	x	x
	From Excl. lubricant supply branch	x	x	x	x	x
	To Excl. user and return	x	x	x	x	x
	From Excl. user	x	x	x	x	x
MX	CONTROL MEDIUM SUPPLY	x	x	x	x	x
MXA	Hydraulic storage	x	x	x	x	x
MXB	Hydraulic oil supply	x	x	x	x	x
MY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x	x	x	x	x
MYA	Control desk in control room	x	x	x	x	x
MYB	Control panel in control room	x	x	x	x	x
MYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
MYD	PLC	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
MYE	Spare	x	x	x	x	x
MYF	Equipment room cubicle	x	x	x	x	x
MYG	Marshalling panel	x	x	x	x	x
MYH	Measurement rack	x	x	x	x	x
MYJ	Spare	x	x	x	x	x
MYK	DC supply incl. associated equipment	x	x	x	x	x
MYL	AC supply and distribution	x	x	x	x	x
MYQ	Computer equipment	x	x	x	x	x
MYW	Common equipment	x	x	x	x	x
MYX	Common equipment	x	x	x	x	x
MYY	Common equipment	x	x	x	x	x
MYZ	Common equipment	x	x	x	x	x
P	**COOLING WATER SYSTEM**	**x**	**x**		**x**	**x**
PA	MAIN COOLING WATER SYSTEM	x	x		x	x
PAA	Extraction , mechanical purification	x	x		x	x
	From Incl. inlet system	x	x		x	x
	To Incl. outlet of mechanical purification	x	x		x	x
PAB	Piping , canal system for main cooling water	x	x		x	x
	From Excl. fresh water production outlet (always without consumers)	x	x		x	x
	To Incl. fresh water cooling outlet	x	x		x	x
	From Excl. cooling tower outlet	x	x		x	x
	To Excl. cooling tower inlet for closed circuit cooling	x	x		x	x
PAC	Main cooling water pumping system	x	x		x	x
	From Incl. suction flange of pumping system	x	x		x	x
	To Incl. discharge flange of pumping system	x	x		x	x
PAD	Cooling tower	x	x		x	x
	From Incl. standpipe	x	x		x	x
	To Incl. cooling basin outlet	x	x		x	x
PAE	Cooling tower pump system (if separate)	x	x		x	x
PAH	Condenser cleaning system Incl. all affiliated equipment	x	x		x	x
PAR	Cooling tower make-up water piping system	x	x		x	x
	From Excl. inlet	x	x		x	x
	To Excl. inlet to another system	x	x		x	x
PAS	Cooling tower make-up water pumping system	x	x		x	x
	From Incl. pump system suction nozzle	x	x		x	x
	To Incl. pump system discharge nozzle	x	x		x	x
PAV	Lubrication supply system	x	x		x	x
PAX	Control medium supply for closed/open loop control and protection	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	equipment					
PAY	Closed/open loop control and protection equipment	x	x		x	x
PB	MAIN COOLING WATER TREATMENT	x	x		x	x
PBA	Supply line , distribution outside medium handling	x	x		x	x
	(if not part of another system)	x	x		x	x
	From Excl. extraction point or	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. medium treatment	x	x		x	x
	From Excl. medium treatment outlet	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PBB	Filtering , mechanical purification	x	x		x	x
	From Incl. separator equipment inlet	x	x		x	x
	To Incl. separator equipment outlet	x	x		x	x
PBC	Ventilation , gas injection	x	x		x	x
	From Excl. atmosphere	x	x		x	x
	From Incl. gas supply	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PBD	Precipitation (e.g. decarbonisation)	x	x		x	x
	From Incl. precipitation inlet	x	x		x	x
	To Incl. precipitation outlet	x	x		x	x
PBE	Acid dosing (e.g. decarbonisation)	x	x		x	x
	From Incl. acid dosing equipment or	x	x		x	x
	From Excl. chemical supply branch	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PBF	Ion exchanger (e.g. desalination)	x	x		x	x
	From Incl. ion exchanger inlet and	x	x		x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x		x	x
	medium supply to ion exchanger	x	x		x	x
	To Incl. ion exchanger outlet	x	x		x	x
PBG	Evaporation (e.g. desalination)	x	x		x	x
	From Incl. feedwater inlet	x	x		x	x
	To Incl. steam outlet and	x	x		x	x
	From Incl. hot steam inlet	x	x		x	x
	To Incl. condensate outlet	x	x		x	x
PBH	Degasification , drying	x	x		x	x
	From Incl. degasifier tank inlet	x	x		x	x
	To Incl. tank outlet including heating equipment	x	x		x	x
	steam condenser	x	x		x	x
PBJ	Heating , cooling	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. heater , cooler inlet	x	x		x	x
	To Incl. heater , cooler outlet	x	x		x	x
PBK	Internal piping , intermediate storage , pump system for	x	x		x	x
	main medium	x	x		x	x
	Internal piping:	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
	To Incl. medium treatment outlet	x	x		x	x
	Intermediate storage:	x	x		x	x
	From Incl. inlet , intermediate storage	x	x		x	x
	To Incl. outlet , intermediate storage	x	x		x	x
	Pump system:	x	x		x	x
	From Incl. suction flange of pumping system	x	x		x	x
	To Incl. discharge flange of pumping system	x	x		x	x
PBL	Storage not included in medium treatment (and not part of	x	x		x	x
	another system)	x	x		x	x
	From Incl. storage plant inlet	x	x		x	x
	To Incl. storage plant outlet	x	x		x	x
PBN	Chemical supply system	x	x		x	x
	From Incl. extraction point or	x	x		x	x
	From Incl. storage tank	x	x		x	x
	To Excl. transfer into another system	x	x		x	x
PBP	Regeneration and purging equipment	x	x		x	x
	From Incl. system inlet	x	x		x	x
	To Excl. injection into another system	x	x		x	x
	From Excl. chemical supply , auxiliary medium supply	x	x		x	x
	and purging air supply	x	x		x	x
	To Incl. regeneration purging equipment	x	x		x	x
PBQ	Injection device for main medium	x	x		x	x
	From Incl. injection device or	x	x		x	x
	From Excl. chemical supply junction	x	x		x	x
	To Incl. inlet into another system	x	x		x	x
PBR	Flushing water and residue removal including neutralisation	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x
	To Excl. transfer point of another system	x	x		x	x
PBS	Sludge thickener	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x
	To Excl. transfer point of another system	x	x		x	x
PBT	Heating , cooling and flushing medium distribution	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. heating , cooling and flushing medium	x	x		x	x
	production or	x	x		x	x
	From Excl. heating , cooling and flushing medium	x	x		x	x
	supply junction	x	x		x	x
	To Excl. consumer and	x	x		x	x
	From Excl. consumer	x	x		x	x
PBX	Control medium supply for closed/open loop control and protection equipment	x	x		x	x
PBY	Closed/open loop control and protection equipment	x	x		x	x
PC	OPEN LOOP COOLING WATER SYSTEM CONVENTIONAL AREA(Service Water)	x	x		x	x
PCA	Extraction , mechanical purification	x	x		x	x
	From Incl. system inlet	x	x		x	x
	To Incl. mechanical cleaning outlet	x	x		x	x
PCB	Piping and channel system	x	x		x	x
	From Excl. fresh water production outlet or	x	x		x	x
	From Excl. main cooling water system branch	x	x		x	x
	To Excl. inlet into another system and without	x	x		x	x
	each consumer	x	x		x	x
	To Excl. make-up water preparation and distribution	x	x		x	x
PCC	Pumping system	x	x		x	x
	From Incl. suction flange of pumping system	x	x		x	x
	To Incl. discharge flange of pumping system	x	x		x	x
PCD	Cooling tower	x	x		x	x
	From Incl. standpipe	x	x		x	x
	To Incl. cooler basin outlet	x	x		x	x
PCH	Cleaning system for heat exchanger	x	x		x	x
PCM	Open loop cooling water system for generator and generator motor cooling	x	x		x	x
	From Excl. PCB branch	x	x		x	x
	To Excl. generator cooler and	x	x		x	x
	From Excl. generator cooler	x	x		x	x
	To Excl. inlet to "PCB" or another system	x	x		x	x
PCN	Open loop cooling water system for station transformer cooling	x	x		x	x
	From Excl. PCB branch	x	x		x	x
	To Excl. trfr cooler and	x	x		x	x
	From Excl. trfr cooler and	x	x		x	x
	To Excl. inlet to PCB or another branch	x	x		x	x
PCP	Open loop cooling water system for Gen/Motor transformer	x	x		x	x
	From Excl. PCB branch	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. trfr cooler and	x	x		x	x
	From Excl. trfr cooler	x	x		x	x
	To Excl. inlet to PCB or another branch	x	x		x	x
PCX	Control medium supply for closed/open loop control and protection equipment	x	x		x	x
PCY	Closed/open loop control and protection equipment	x	x		x	x
PD	OPEN LOOP COOLING WATER TREATMENT CONVENTIONAL AREA	x	x		x	x
PDA	Supply line , distribution outside medium handling	x	x		x	x
	(if not part of another system)	x	x		x	x
	From Excl. extraction point or	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. medium treatment	x	x		x	x
	From Excl. medium treatment outlet	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PDB	Filtering , mechanical purification	x	x		x	x
	From Incl. separator equipment inlet	x	x		x	x
	To Incl. separator equipment outlet	x	x		x	x
PDC	Ventilation , gas injection	x	x		x	x
	From Excl. atmosphere	x	x		x	x
	From Incl. gas supply	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PDD	Precipitation (e.g. decarbonisation)	x	x		x	x
	From Incl. precipitation inlet	x	x		x	x
	To Incl. precipitation outlet	x	x		x	x
PDE	Acid dosing (e.g. decarbonisation)	x	x		x	x
	From Incl. acid dosing equipment or	x	x		x	x
	From Excl. chemical supply branch	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PDF	Ion exchanger (e.g. desalination)	x	x		x	x
	From Incl. ion exchanger inlet and	x	x		x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x		x	x
	medium supply to ion exchanger	x	x		x	x
	To Incl. ion exchanger outlet	x	x		x	x
PDG	Evaporation (e.g. desalination)	x	x		x	x
	From Incl. feedwater inlet	x	x		x	x
	To Incl. steam outlet and	x	x		x	x
	From Incl. hot steam inlet	x	x		x	x
	To Incl. condensate outlet	x	x		x	x
PDH	Degasification , drying	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. degasifier tank inlet	x	x		x	x
	To Incl. tank outlet including heating equipment steam condenser	x	x		x	x
PDJ	Heating , cooling	x	x		x	x
	From Incl. heater , cooler inlet	x	x		x	x
	To Incl. heater , cooler outlet	x	x		x	x
PDK	Internal piping , intermediate storage , pump system for main medium	x	x		x	x
	Internal piping:	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
	To Incl. medium treatment outlet	x	x		x	x
	Intermediate storage:	x	x		x	x
	From Incl. inlet , intermediate storage	x	x		x	x
	To Incl. outlet , intermediate storage	x	x		x	x
	Pump system:	x	x		x	x
	From Incl. suction flange of pumping system	x	x		x	x
	To Incl. discharge flange of pumping system	x	x		x	x
PDL	Storage not included in medium treatment (and not part of	x	x		x	x
	another system)	x	x		x	x
	From Incl. storage plant inlet	x	x		x	x
	To Incl. storage plant outlet	x	x		x	x
PDN	Chemical supply system	x	x		x	x
	From Incl. extraction point or	x	x		x	x
	From Incl. storage tank	x	x		x	x
	To Excl. transfer into another system	x	x		x	x
PDP	Regeneration and purging equipment	x	x		x	x
	From Incl. system inlet	x	x		x	x
	To Excl. injection into another system	x	x		x	x
	From Excl. chemical supply , auxiliary medium supply	x	x		x	x
	and purging air supply	x	x		x	x
	To Incl. regeneration purging equipment	x	x		x	x
PDQ	Injection device for main medium	x	x		x	x
	From Incl. injection device or	x	x		x	x
	From Excl. chemical supply junction	x	x		x	x
	To Incl. inlet into another system	x	x		x	x
PDR	Flushing water and residue removal including neutralisation	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x
	To Excl. transfer point of another system	x	x		x	x
PDS	Sludge thickener	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. transfer point of another system	x	x		x	x
PDT	Heating , cooling and flushing medium distribution	x	x		x	x
	From Incl. heating , cooling and flushing medium production	x	x		x	x
	or	x	x		x	x
	From Excl. heating , cooling and flushing medium supply junction	x	x		x	x
	To Excl. consumer and	x	x		x	x
	From Excl. consumer	x	x		x	x
PDX	Control medium supply for closed/open loop control and protection equipment	x	x		x	x
PDY	Closed/open loop control and protection equipment	x	x		x	x
PE	OPEN LOOP COOLING WATER SYSTEM SECURED AREA (NUCLEAR)*				x	
PEA	Extraction , mechanical purification				x	
	From Incl. intake structure				x	
	To Incl. mechanical purification outlet				x	
PEB	Piping and channel system				x	
	From Excl. fresh water production outlet or				x	
	From Excl. cooling tower outlet with intermediate				x	
	storage and return pipe				x	
	To Excl. inlet into another system always without				x	
	consumer and				x	
	From Excl. make-up water preparation and distribution				x	
PEC	Pumping system				x	
	From Incl. suction flange of pumping system				x	
	To Incl. discharge flange of pumping system				x	
PED	Cooling tower				x	
	From Incl. standpipe				x	
	To Incl. cooler basin outlet				x	
PEH	Cleaning system for heat exchanger				x	
PEX	Control medium supply for closed/open loop control and protection equipment				x	
PEY	Closed/open loop control and protection equipment				x	
PF	OPEN LOOP COOLING WATER TREATMENT ,SECURED AREA (NUCLEAR)*				x	
PFA	Supply line , distribution outside medium handling				x	
	(if not part of another system)				x	
	From Excl. extraction point or				x	
	From Excl. outlet of another system				x	
	To Excl. medium treatment				x	
	From Excl. medium treatment outlet				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	To Excl. inlet into another system				x	
PFB	Filtering , mechanical purification				x	
	From Incl. separator equipment inlet				x	
	To Incl. separator equipment outlet				x	
PFC	Ventilation , gas injection				x	
	From Excl. atmosphere or				x	
	From Incl. gas supply				x	
	To Excl. inlet into another system				x	
PFD	Precipitation (e.g. decarbonisation)				x	
	From Incl. precipitation inlet				x	
	To Incl. precipitation outlet				x	
PFE	Acid dosing (e.g. decarbonisation)				x	
	From Incl. acid dosing equipment or				x	
	From Excl. chemical supply branch				x	
	To Excl. inlet into another system				x	
PFF	Ion exchanger (e.g. desalination)				x	
	From Incl. ion exchanger inlet and				x	
	From Incl. chemical supply isolating valve , auxiliary				x	
	medium supply to ion exchanger				x	
	To Incl. ion exchanger outlet				x	
PFG	Evaporation (e.g. desalination)				x	
	From Incl. feedwater inlet				x	
	To Incl. steam outlet and				x	
	From Incl. hot steam inlet				x	
	To Incl. condensate outlet				x	
PFH	Degasification , drying				x	
	From Incl. degasifier tank inlet				x	
	To Incl. tank outlet including heating equipment				x	
	for steam condenser				x	
PFJ	Heating , cooling				x	
	From Incl. heater , cooler inlet				x	
	To Incl. heater , cooler outlet				x	
PFK	Internal piping , intermediate storage , pump system for				x	
	main medium				x	
	Internal piping:				x	
	From Excl. outlet of another system				x	
	To Excl. inlet into another system				x	
	To Incl. medium treatment outlet				x	
	Intermediate storage:				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. inlet , intermediate storage				x	
	To Incl. outlet , intermediate storage				x	
	Pump system:				x	
	From Incl. suction flange of pumping system				x	
	To Incl. discharge flange of pumping system				x	
PFL	Storage not included in medium treatment (and not part of				x	
	another system)				x	
	From Incl. storage plant inlet				x	
	To Incl. storage plant outlet				x	
PFN	Chemical supply system				x	
	From Incl. extraction point or				x	
	From Incl. storage tank				x	
	To Excl. transfer into another system				x	
PFP	Regeneration and purging equipment				x	
	From Incl. system inlet				x	
	To Excl. injection into another system				x	
	From Excl. chemical supply , auxiliary medium supply				x	
	and purging air supply				x	
	To Incl. regeneration purging equipment				x	
PFQ	Injection device for main medium				x	
	From Incl. injection device or				x	
	From Excl. chemical supply junction				x	
	To Incl. inlet into another system				x	
PFR	Flushing water and residue removal including neutralisation				x	
	From Excl. outlet of respective system				x	
	To Excl. transfer point of another system				x	
PFS	Sludge thickener				x	
	From Excl. outlet of respective system				x	
	To Excl. transfer point of another system				x	
PFT	Heating , cooling and flushing medium distribution				x	
	From Incl. heating , cooling and flushing medium				x	
	production				x	
	From Excl. heating , cooling and flushing medium				x	
	supply junction				x	
	To Excl. consumer and				x	
	From Excl. consumer				x	
PFX	Control medium supply for closed/open loop control and protection equipment				x	
PFY	Closed/open loop control and protection equipment				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
PG	CLOSED LOOP COOLING WATER SYSTEM , CONVENTIONAL AREA	x	x		x	
PGA	Extraction , mechanical purification	x	x		x	
	From Incl. system inlet	x	x		x	
	To Incl. mechanical cleaning system outlet	x	x		x	
PGB	Piping and channel system	x	x		x	
	From Excl. fresh water production outlet or	x	x		x	
	From Excl. main cooling water system branch	x	x		x	
	To Excl. inlet into another system	x	x		x	
	From Excl. make-up water preparation and distribution	x	x		x	
PGC	Pumping system	x	x		x	
	From Incl. suction flange of pumping system	x	x		x	
	To Incl. discharge flange of pumping system	x	x		x	
PGD	Cooling tower	x	x		x	
	From Incl. standpipe	x	x		x	
	To Incl. cooler basin outlet	x	x		x	
PGH	Cleaning system for heat exchanger	x	x		x	
PGM	Closed loop cooling water system for generator and generator motor	x	x		x	
	From Excl. PGB branch	x	x		x	
	To Excl. generator cooler	x	x		x	
PGX	Control medium supply for closed/open loop control and protection equipment	x	x		x	
PGY	Closed/open loop control and protection equipment	x	x		x	
PH	WATER TREATMENT CLOSED LOOP COOLING WATER SYSTEM (Conventional Area)	x	x		x	x
PHA	Supply line , distribution not included in medium handling	x	x		x	x
	(if not part of another system)	x	x		x	x
	From Excl. extraction point or	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. medium treatment	x	x		x	x
	From Excl. medium treatment outlet	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PHB	Filtering , mechanical purification	x	x		x	x
	From Incl. separator equipment inlet	x	x		x	x
	To Incl. separator equipment outlet	x	x		x	x
PHC	Ventilation , gas injection	x	x		x	x
	From Excl. atmosphere or	x	x		x	x
	From Incl. gas supply	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PHD	Precipitation (e.g. decarbonisation)	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. precipitation inlet	x	x		x	x
	To Incl. precipitation outlet	x	x		x	x
PHE	Acid dosing (e.g. decarbonisation)	x	x		x	x
	From Incl. acid dosing equipment or	x	x		x	x
	From Excl. chemical supply branch	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
PHF	Ion exchanger (e.g. desalination)	x	x		x	x
	From Incl. ion exchanger inlet and	x	x		x	x
	From Incl. chemical supply isolating valve , auxiliary	x	x		x	x
	medium supply to ion exchanger	x	x		x	x
	To Incl. ion exchanger outlet	x	x		x	x
PHG	Evaporation (e.g. desalination)	x	x		x	x
	From Incl. feedwater inlet	x	x		x	x
	To Incl. steam outlet and	x	x		x	x
	From Incl. hot steam inlet	x	x		x	x
	To Incl. condensate outlet	x	x		x	x
PHH	Degasification , drying	x	x		x	x
	From Incl. degasifier tank inlet	x	x		x	x
	To Incl. tank outlet including heating equipment	x	x		x	x
	for steam condenser	x	x		x	x
PHJ	Heating , cooling	x	x		x	x
	From Incl. heater , cooler inlet	x	x		x	x
	To Incl. heater , cooler outlet	x	x		x	x
PHK	Internal piping, intermediate storage, pump system for main medium	x	x		x	x
	Internal piping:	x	x		x	x
	From Excl. outlet of another system	x	x		x	x
	To Excl. inlet into another system	x	x		x	x
	To Incl. medium treatment outlet	x	x		x	x
	Intermediate storage:	x	x		x	x
	From Incl. inlet , intermediate storage	x	x		x	x
	To Incl. outlet , intermediate storage	x	x		x	x
	Pump system:	x	x		x	x
	From Incl. suction flange of pumping system	x	x		x	x
	To Incl. discharge flange of pumping system	x	x		x	x
PHL	Storage not included in medium treatment (and not part of	x	x		x	x
	another system)	x	x		x	x
	From Incl. storage plant inlet	x	x		x	x
	To Incl. storage plant outlet	x	x		x	x
PHN	Chemical supply system	x	x		x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	From Incl. extraction point or	x	x		x	x
	From Incl. storage tank	x	x		x	x
	To Excl. transfer into another system	x	x		x	x
PHP	Regeneration and purging equipment	x	x		x	x
	From Incl. system inlet	x	x		x	x
	To Excl. injection into another system	x	x		x	x
	From Excl. chemical supply , auxiliary medium supply	x	x		x	x
	and purging air supply	x	x		x	x
	To Incl. regeneration purging equipment	x	x		x	x
PHQ	Injection device for main medium	x	x		x	x
	From Incl. injection device or	x	x		x	x
	From Excl. chemical supply junction	x	x		x	x
	To Incl. inlet into another system	x	x		x	x
PHR	Flushing water and residue removal including neutralisation	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x
	To Excl. transfer point of another system	x	x		x	x
PHS	Sludge thickener	x	x		x	x
	From Excl. outlet of respective system	x	x		x	x
	To Excl. transfer point of another system	x	x		x	x
PHT	Heating , cooling and flushing medium distribution	x	x		x	x
	From Incl. heating , cooling and flushing medium	x	x		x	x
	production	x	x		x	x
	From Excl. heating , cooling and flushing medium	x	x		x	x
	supply junction	x	x		x	x
	To Excl. consumer and	x	x		x	x
	From Excl. consumer	x	x		x	x
PHX	Control medium supply for closed/open loop control and	x	x		x	x
	protection equipment	x	x		x	x
PHY	Closed/open loop control and protection equipment	x	x		x	x
PJ	CLOSED COOLING WATER SYSTEM SECURED AREA (NUCLEAR)*				x	
PK	WATER TREATMENT CLOSED LOOP COOLING WATER SYSTEM. Secured (Nuclear)*				x	
PKA	Supply line , distribution not included in medium treatment				x	
	(if not part of another system)				x	
	From Excl. extraction point or				x	
	From Excl. outlet of another system				x	
	To Excl. medium treatment				x	
	From Excl. medium treatment outlet				x	
	To Excl. inlet into another system				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
PKB	Filtering , mechanical purification				x	
	From Incl. separator equipment inlet				x	
	To Incl. separator equipment outlet				x	
PKC	Ventilation , gas injection				x	
	From Excl. atmosphere or				x	
	From Incl. gas supply				x	
	To Excl. inlet into another system				x	
PKD	Precipitation (e.g. decarbonisation)				x	
	From Incl. precipitation inlet				x	
	To Incl. precipitation outlet				x	
PKE	Acid dosing (e.g. decarbonisation)				x	
	From Incl. acid dosing equipment or				x	
	From Excl. chemical supply branch				x	
	To Excl. inlet into another system				x	
PKF	Ion exchanger (e.g. desalination)				x	
	From Incl. ion exchanger inlet and				x	
	From Incl. chemical supply isolating valve , auxiliary				x	
	medium supply to ion exchanger				x	
	To Incl. ion exchanger outlet				x	
PKG	Evaporation (e.g. desalination)				x	
	From Incl. feedwater inlet				x	
	To Incl. steam outlet and				x	
	From Incl. hot steam inlet				x	
	To Incl. condensate outlet				x	
PKH	Degasification , drying				x	
	From Incl. degasifier tank inlet				x	
	To Incl. tank outlet including heating equipment steam				x	
	condenser				x	
PKJ	Heating , cooling				x	
	From Incl. heater, cooler inlet				x	
	To Incl. heater, cooler outlet				x	
PKK	Internal piping, intermediate storage, pump system for main medium				x	
	Internal piping:				x	
	From Excl. outlet of another system				x	
	To Excl. inlet into another system				x	
	To Incl. medium treatment outlet				x	
	Intermediate storage:				x	
	From Incl. inlet , intermediate storage				x	
	To Incl. outlet , intermediate storage				x	

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	Pump system:				x	
	From Incl. suction flange of pumping system				x	
	To Incl. discharge flange of pumping system				x	
PKL	Storage not included in medium treatment (and not part of				x	
	another system)				x	
	From Incl. storage plant inlet				x	
	To Incl. storage plant outlet				x	
PKN	Chemical supply system				x	
	From Incl. extraction point or				x	
	From Incl. storage tank				x	
	To Excl. transfer into another system				x	
PKP	Regeneration and purging equipment				x	
	From Incl. system inlet				x	
	To Excl. injection into another system				x	
	From Excl. chemical supply , auxiliary medium supply				x	
	and purging air supply				x	
	To Incl. regeneration purging equipment				x	
PKQ	Injection device for main medium				x	
	From Incl. injection device or				x	
	From Excl. chemical supply junction				x	
	To Incl. inlet into another system				x	
PKR	Flushing water and residue removal including neutralisation				x	
	From Excl. outlet of respective system				x	
	To Excl. transfer point of another system				x	
PKS	Sludge thickener				x	
	From Excl. outlet of respective system				x	
	To Excl. transfer point of another system				x	
PKT	Heating , cooling and flushing medium distribution				x	
	From Incl. heating , cooling and flushing medium				x	
	production or				x	
	From Excl. heating , cooling and flushing medium				x	
	supply junction				x	
	To Excl. consumer and				x	
	From Excl. consumer				x	
PKX	Control medium supply for closed/open loop control and protection equipment				x	
PKY	Closed/open loop control and protection equipment				x	
PM	CLOSED LOOP COOLING WATER SYSTEM FOR TRANSFORMER*					
	(IF SEPARATE FROM CLOSED LOOP COOLING WATER SYSTEM)					

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
PS	COOLING TOWER BLOW-DOWN SYSTEM (IF SEPARATE FROM "PAB")					
PU	COMMON EQUIPMENT FOR COOLING WATER SYSTEM					
PUN	Dosing equipment					
PY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT INCLUDING	x	x	x	x	x
	ELECTRICAL SUPPLY FOR COOLING WATER SYSTEM					
PYA	Control desk in control room	x	x	x	x	x
PYB	Control panel in control room	x	x	x	x	x
PYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
PYD	Spare) These are available for PLC electrical electronic	x	x	x	x	x
PYE	Spare) controllers and equipment cubicles	x	x	x	x	x
PYF	Spare)	x	x	x	x	x
PYG	Marshalling panel	x	x	x	x	x
PYH	Measurement rack	x	x	x	x	x
PYJ	Spare	x	x	x	x	x
PYK	DC supply including associated equipment	x	x	x	x	x
PYL	AC supply and distribution	x	x	x	x	x
PYQ	Computer equipment	x	x	x	x	x
PYW	Common equipment	x	x	x	x	x
PYX	Common equipment	x	x	x	x	x
PYY	Common equipment	x	x	x	x	x
PYZ	Common equipment	x	x	x	x	x
Q	**AUXILIARY SYSTEM**	**x**	**x**	**x**	**x**	**x**
QC	CENTRAL CHEMICAL SUPPLY	x	x	x	x	x
QE	GENERAL COMPRESSED AND TRANSFER AIR SUPPLY	x	x	x	x	x
QEA	Central compressed and transfer air generation	x	x	x	x	x
QEB	Central compressed and transfer air distribution and storage (air receiver)	x	x	x	x	x
QEL	Service air supply system for main group G, P, & L (for water supply, water/steam cycle	x	x	x	x	x
	and cooling water system)	x	x	x	x	x
QEM	Service air supply system for main group M (for main machine set)	x	x	x	x	x
QEQ	Service air supply system for main group Q (for auxiliaries)	x	x	x	x	x
QES	Service air supply system for main group S (for ancillary systems)	x	x	x	x	x
QF	GENERAL CONTROL AIR SUPPLY	x	x	x	x	x
QFA	Central control air generation	x	x	x	x	x
QFB	Central control air distribution system	x	x	x	x	x
QFL	Control air supply system for main group G, P, & L (for water supply, water/steam cycle	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
	and cooling water system)	x	x	x	x	x
QFM	Control air supply system for main group M (main machine set)	x	x	x	x	x
QFQ	Control air supply system for main group Q (for auxiliaries)	x	x	x	x	x
QFS	Control air supply system for main group S (for ancillary systems)	x	x	x	x	x
QG	CENTRAL GAS SUPPLY FOR CLOSED GAS CYCLE (AS WORKING MEDIUM)	x	x	x	x	x
QGA	Electrolyser	x	x	x	x	x
QGB	Gas cooling equipment	x	x	x	x	x
QGC	Gas processing equipment	x	x	x	x	x
QGD	Gas scrubber	x	x	x	x	x
QGE	Gas holder	x	x	x	x	x
QGF	Gas compressor	x	x	x	x	x
QGG	Gas purifier	x	x	x	x	x
QGH	Gas drier	x	x	x	x	x
QGJ	Storage tank	x	x	x	x	x
QGK	Gas circulation control	x	x	x	x	x
QGL	Bottle filling station	x	x	x	x	x
QGM	Gas mixing station	x	x	x	x	x
QGN	Pressure reducing station	x	x	x	x	x
QGP	Purging gas station	x	x	x	x	x
QGQ	Water treatment station	x	x	x	x	x
QGR	Electrolyte station	x	x	x	x	x
QGS	Control/measurement	x	x	x	x	x
QGT	Piping system for condensate/sewage	x	x	x	x	x
QGU	Piping system for hydrogen/oxygen	x	x	x	x	x
QGV	Piping system for feedwater	x	x	x	x	x
QGW	Piping system for cooling water	x	x	x	x	x
QGX	Piping system for electrolyte	x	x	x	x	x
QGY	Control and instrumentation use	x	x	x	x	x
QGZ	Piping system for purging gas	x	x	x	x	x
QH	AUXILIARY STEAM GENERATION	x	x	x	x	x
QHA	Pressure system	x	x	x	x	x
QHB	Supporting structure casing , steam generator combustion chamber	x	x	x	x	x
QHC	Cleaning equipment for the heating surfaces on the flue gas side	x	x	x	x	x
QHD	Ash and slag handling	x	x	x	x	x
QHE	Sludge , expansion , drainage system	x	x	x	x	x
QHF	Bunker , feeder , pulverizing system	x	x	x	x	x
QHG	Boiler water circulation (electrically heated steam generator)	x	x	x	x	x
QHH	Main firing (electrically heated steam generator)	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
QHJ	Lighting-up system (in case the mentioned functions are independent)	x	x	x	x	x
QHL	Combustion air system (forced draught)	x	x	x	x	x
QHM	Gas heating system (for closed system)	x	x	x	x	x
QHN	Flue gas exhaust (induced draught , without flue gas treatment)	x	x	x	x	x
QHP	Mechanical dust separation (cylone)	x	x	x	x	x
QHQ	Electrostatic precipitator	x	x	x	x	x
QHR	Chemical flue gas treatment system incl. residue removal (absortive process)	x	x	x	x	x
QHS	Chemical flue gas treatment system incl. residue removal (catalytic process)	x	x	x	x	x
QHT	Chemical flue gas treatment system incl. residue removal (absortive process)	x	x	x	x	x
QHU	Flue gas reheating*	x	x	x	x	x
QHX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
QHY	Closed/open loop control and protection equipment	x	x	x	x	x
QJ	CENTRAL GAS SUPPLY (INCL. INERT GAS)#	x	x	x	x	x
QK	CHILLED MEDIUM SYSTEM (CONVENTIONAL AREA AIR CONDITIONING)	x	x	x	x	x
QKA	Chilled medium system (auxiliary bay)	x	x	x	x	x
QKB	Chilled medium system (station services building)	x	x	x	x	x
QL	FEEDWATER , STEAM , CONDENSATE CYCLE OF AUXILIARY STEAM	x	x	x	x	x
	GENERATION AND DISTRIBUTION	x	x	x	x	x
QLA	Feedwater system	x	x	x	x	x
QLB	Steam system	x	x	x	x	x
QLC	Condensate system	x	x	x	x	x
QLD	Condensate purification (CPP)	x	x	x	x	x
QLF	Common equipment for auxiliary steam generation and distribution	x	x	x	x	x
QLX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
QLY	Closed/open loop control and protection equipment	x	x	x	x	x
QM	AIR HUMIDIFYING SYSTEM	x	x	x	x	x
QS	CENTRAL OIL SUPPLY AND RESIDUE REMOVAL	x	x	x	x	x
	(FOR SYSTEM ASSIGNABLE TO MORE THAN ONE F1-FUNCTION)	x	x	x	x	x
QSA	Used oil storage	x	x	x	x	x
	From Incl. inlet	x	x	x	x	x
	To Incl. outlet	x	x	x	x	x
QSB	Piping system	x	x	x	x	x
	From Excl. inlet from another system	x	x	x	x	x
	To Excl. disposal point (tanker isolating valve)	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
QSV	Mobile purifying system	x	x	x	x	x
QU	SAMPLING SYSTEM (CONVENTIONAL AREA)	x	x	x	x	x
QUA	Sampling system	x	x	x	x	x
QUW	Chiller system	x	x	x	x	x
QUY	Closed/open loop control and protection equipment	x	x	x	x	x
QY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT INCL. OPEN	x	x	x	x	x
	LOOP CONTROL FOR L.P. SERVICES	x	x	x	x	x
QYA	Control desk in control room	x	x	x	x	x
QYB	Control panel in control room	x	x	x	x	x
QYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
QYD	PLC	x	x	x	x	x
QYE	Spare	x	x	x	x	x
QYF	Equipment room cubicle	x	x	x	x	x
QYG	Marshalling panel	x	x	x	x	x
QYH	Measurement rack	x	x	x	x	x
QYJ	Spare	x	x	x	x	x
QYK	DC supply incl. associated equipment	x	x	x	x	x
QYL	AC supply and distribution	x	x	x	x	x
QYQ	Computer equipment	x	x	x	x	x
QYW	Common equipment	x	x	x	x	x
QYX	Common equipment	x	x	x	x	x
QYY	Common equipment	x	x	x	x	x
QYZ	Common equipment	x	x	x	x	x
S	**ANCILLARY SYSTEM**	**x**	**x**	**x**	**x**	**x**
SA	VENTILATION SYSTEM (CONVENTIONAL AREA) (AIR CONDITIONING)	x	x	x	x	x
SAA	Auxiliary bay	x	x	x	x	x
SAB	Boiler bay	x	x	x	x	x
SAC	Control building (access)	x	x	x	x	x
SAD	Outside plant control room	x	x	x	x	x
SAE	Electrical distribution	x	x	x	x	x
SAF	Hv yard building	x	x	x	x	x
SAG	Admin building (system)	x	x	x	x	x
SAH	Fire and first aid building	x	x	x	x	x
SAJ	Condensate polishing plant	x	x	x	x	x
SAK	Cable tunnel (ventilation)	x	x	x	x	x
SAL	Coal stockyard	x	x	x	x	x
SAM	Ash dump	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
SAN	Telecommunication building	x	x	x	x	x
SAS	Station services building	x	x	x	x	x
SAT	Turbine hall	x	x	x	x	x
SAU	Workshop and store	x	x	x	x	x
SAY	Control panel	x	x	x	x	x
SB	HEATING SYSTEM (BUILDING RELATED)	x	x	x	x	x
SC	COMPRESSED AIR SUPPLY SYSTEM (PERMANENT INSTALLATION)	x	x	x	x	x
SCA	Compressed air generation	x	x	x	x	x
SCB	Compressed air distribution	x	x	x	x	x
SCC	Compressed air storage (air receiver)	x	x	x	x	x
SD	CLEANING SYSTEM (DECONTAMINATION SYSTEM SEE "FK")	x	x	x	x	x
	(PERMANENT INSTALLATION)	x	x	x	x	x
SDA	Dust collection equipment , conventional fuel supply system	x	x	x	x	x
SDC	Dust collection equipment , fuel disposal system	x	x	x	x	x
SDE	Dust collection equipment , floor	x	x	x	x	x
SE	WELDING GAS SYSTEM (PERMANENT INSTALLATION)	x	x	x	x	x
SF	HEAT AND BURNING GAS SYSTEM	x	x	x	x	x
SG	FIRE PROTECTION SYSTEM (PERMANENT INSTALLATION)	x	x	x	x	x
SGA	Fire fighting water system (conventional area)	x	x	x		x
SGB	Fire fighting water system (nuclear area) *	x	x	x	x	
SGC	Spray water equipment (conventional area)	x	x	x		x
SGD	Spray water equipment (nuclear area) *	x	x	x	x	
SGE	Sprinkler equipment	x	x	x	x	x
SGF	Foam fire fighting equipment	x	x	x	x	x
SGG	Tank casing cooling equipment	x	x	x	x	x
SGJ	CO^2 fire fighting equipment					
SGK	Halon-fire fighting equipment	x	x	x	x	x
SGL	Powder fire fighting equipment	x	x	x	x	x
SGM	Fire fighting equipment general	x	x	x	x	x
SGX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
SGY	Closed/open loop control and protection equipment	x	x	x	x	x
SH	ACCESS CONTROL	x	x	x	x	x
SM	OVERHEAD CRANE , PERMANENT HOIST AND LIFTING DEVICE	x	x	x	x	x
SMA	Auxiliary cooling system crane	x	x	x	x	x
SMB	Ash plant crane	x	x	x	x	x
SMC	Store crane	x	x	x	x	x
SMD	Workshop crane	x	x	x	x	x
SME	Water supply and discharge plant crane	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
SMF	Boiler house crane	x	x	x	x	x
SMG	Auxiliary bay crane	x	x	x	x	x
SMH	Auxiliary crane (incl. "A" frame)	x	x	x	x	x
SMJ	Cooling system crane and hoist	x	x	x	x	x
SMK	Coal plant crane and hoist	x	x	x	x	x
SML	Low pressure services crane	x	x	x	x	x
SMR	Reactor building crane	x	x	x	x	x
SMT	Turbine house crane	x	x	x	x	x
SN	ELEVATOR INSTALLATION	x	x	x	x	x
SNA	Auxiliary bay lift	x	x	x	x	x
SNB	Boiler house lift	x	x	x	x	x
SNC	Cooling tower lift	x	x	x	x	x
SND	Coal silo lift	x	x	x	x	x
SNE	Smoke stack lift	x	x	x	x	x
SNF	Station services building lift	x	x	x	x	x
SNG	Workshop and stores lift	x	x	x	x	x
SNH	Ash plant lift	x	x	x	x	x
SP	RAILWAY INSTALLATION/PERMANENT WAY	x	x	x	x	x
SQ	ROAD TRAFFIC INSTALLATION	x	x	x	x	x
SR	WORKSHOP , STORE AND LABORATORY EQUIPMENT AND SOCIAL INSTALLATION	x	x	x	x	x
	INSIDE CONTROLLED AREA (NUCLEAR)*	x	x	x	x	x
SRA	Facilities for hot workshop	x	x	x	x	x
SRC	Decentralized maintenance workshop	x	x	x	x	x
SRG	Facilities for hot laboratory	x	x	x	x	x
SRH	Radiation protection laboratory	x	x	x	x	x
SRP	Social installation	x	x	x	x	x
ST	WORKSHOP , STORE AND LABORATORY EQUIPMENT AND SOCIAL INSTALLATION	x	x	x	x	x
	OUTSIDE CONTROLLED AREA	x	x	x	x	x
STA	Facilities for workshop	x	x	x	x	x
STB	Workshop lifting equipment	x	x	x	x	x
STC	Decentralized maintenance workshop	x	x	x	x	x
STE	Facilities for store , fuel station (garage)	x	x	x	x	x
STG	Facilities for laboratory	x	x	x	x	x
STM	Moveable portable equipment for maintenance on plant	x	x	x	x	x
STN	Kitchen facility	x	x	x	x	x
STP	Social installation	x	x	x	x	x
SY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
SYA	Control desk in control room	x	x	x	x	x
SYB	Control panel in control room	x	x	x	x	x
SYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
SYD	PLC	x	x	x	x	x
SYE	Fire detection equipment	x	x	x	x	x
SYF	Equipment room cubicle	x	x	x	x	x
SYG	Marshalling panel	x	x	x	x	x
SYH	Measurement rack	x	x	x	x	x
SYJ	Spare	x	x	x	x	x
SYK	DC supply incl. associated equipment	x	x	x	x	x
SYL	AC supply and distribution	x	x	x	x	x
SYQ	Computer equipment	x	x	x	x	x
SYW	Common equipment	x	x	x	x	x
SYX	Common equipment	x	x	x	x	x
SYY	Common equipment	x	x	x	x	x
SYZ	Common equipment	x	x	x	x	x
U	**STRUCTURE**	**x**	**x**	**x**	**x**	**x**
UA	STRUCTURE FOR NETWORK AND DISTRIBUTION PLANT	x	x	x	x	x
UAA	Structure for outdoor switchgear equipment	x	x	x	x	x
UAB	System switchgear building	x	x	x	x	x
UAC	Grid control centre	x	x	x	x	x
UAD	HV yard area	x	x	x	x	x
UAE	Structure for control air system	x	x	x	x	x
UAG	Structure for transformer	x	x	x	x	x
UAH	Structure for plinths and instrument	x	x	x	x	x
UAX	Special structure (plant associated)	x	x	x	x	x
UAY	Structure for bridge	x	x	x	x	x
UAZ	Structure for duct	x	x	x	x	x
UB	STRUCTURE FOR POWER STATION ELECTRICAL POWER SYSTEM	x	x	x	x	x
UBA	Switchgear building	x	x	x	x	x
UBB	Switchgear building	x	x	x	x	x
UBC	Structure for station transformer	x	x	x	x	x
UBD	Structure for LV unit auxiliary supply transformer	x	x	x	x	x
UBE	Structure for HV unit auxiliary supply transformer	x	x	x	x	x
UBF	Structure for generator transformer	x	x	x	x	x
UBG	Structure for start-up transformer	x	x	x	x	x
UBH	Oil separating and collecting pit	x	x	x	x	x
UBJ	Transformer track	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UBK	Service building (transformer , erecting structure)	x	x	x	x	x
UBL	Structure for busbar	x	x	x	x	x
UBM	Structure for transformer cooling system	x	x	x	x	x
UBN	Structure for emergency power generator set (without central chilled water plant)	x	x	x	x	x
UBP	Structure for emergency power generator set and central chilled water plant	x	x	x	x	x
UBQ	Structure for fuel supply for emergency power generator	x	x	x	x	x
UBR	Sub-station for direct/indirect dry cooling	x	x	x	x	x
UBS	Sub-station for coal , ash and bulk fuel plant	x	x	x	x	x
UBT	Sub-station for precipitator	x	x	x	x	x
UBX	Special structure (auxiliary bay)	x	x	x	x	x
UBY	Structure for bridge	x	x	x	x	x
UBZ	Structure for duct	x	x	x	x	x
UC	STRUCTURE FOR CONTROL AND INSTRUMENTATION EQUIPMENT	x	x	x	x	x
UCA	Unit control room building	x	x	x	x	x
UCB	Station control building , HV yard control building	x	x	x	x	x
UCE	Coal stockyard control room	x	x	x	x	x
UCL	Structure for control equipment	x	x	x	x	x
UCP	Structure for control of cooling water	x	x	x	x	x
UCX	Special structure (plant dependant)	x	x	x	x	x
UCY	Structure for bridge	x	x	x	x	x
UCZ	Structure for duct	x	x	x	x	x
UE	STRUCTURE FOR CONVENTIONAL FUEL SUPPLY AND RESIDUE DISPOSAL	x	x	x	x	x
UEA	Structure for coal unloading	x	x	x	x	x
UEB	Structure for coal storage	x	x	x	x	x
UED	Structure for coal transport	x	x	x	x	x
UEE	Structure for coal treatment	x	x	x	x	x
UEF	Transfer structure	x	x	x	x	x
UEG	Structure for coal gassification by pressure	x	x	x	x	x
UEH	Structure for unloading and transfer point of liquid fuel	x	x	x	x	x
UEJ	Structure for storage of liquid fuel	x	x	x	x	x
UEL	Structure for transport , pump station of liquid fuel	x	x	x	x	x
UEM	Structure for treatment and handling of liquid fuel	x	x	x	x	x
UEN	Structure for transfer point, gassification and storage for gaseous fuel	x	x	x	x	x
UER	Structure for transportation of gaseous fuel	x	x	x	x	x
UET	Structure for ash storage	x	x	x	x	x
UEU	Structure for ash transport	x	x	x	x	x
UEV	Structure for ash settling pit	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UEW	Structure for combustion residue treatment system	x	x	x	x	x
UEX	Special structure (plant associated)	x	x	x	x	x
UEY	Structure for bridge	x	x	x	x	x
UEZ	Structure for duct	x	x	x	x	x
UF	STRUCTURE FOR HANDLING NUCLEAR EQUIPMENT	x	x	x	x	x
UFA	Fuel pool building	x	x	x	x	x
UFB	Fuel handling building	x	x	x	x	x
UFC	Fuel storage building	x	x	x	x	x
UFJ	Structure for hot cell	x	x	x	x	x
UFX	Special structure (plant associated)	x	x	x	x	x
UFY	Structure for bridge	x	x	x	x	x
UFZ	Structure for duct	x	x	x	x	x
UG	STRUCTURE FOR WATER SUPPLY AND DISCHARGE	x	x	x	x	x
UGA	Structure for raw water supply	x	x	x	x	x
UGB	Structure for low pressure services supply system	x	x	x	x	x
UGD	Structure for treatment system	x	x	x	x	x
UGE	Neutralization system building	x	x	x	x	x
UGF	Structure for firefighting water system	x	x	x	x	x
UGG	Structure for drinking water supply	x	x	x	x	x
UGH	Structure for rain water	x	x	x	x	x
UGJ	Structure for cooling tower make-up water treatment	x	x	x	x	x
UGK	Flocculator intake and mixing chamber structure	x	x	x	x	x
UGL	Flocculator structure	x	x	x	x	x
UGM	Structure for plant drains (clean, dirty, rain, sewage etc.)	x	x	x	x	x
UGN	Treated water basin	x	x	x	x	x
UGP	Sludge thickener storage structure	x	x	x	x	x
UGQ	Sludge dewatering storage building	x	x	x	x	x
UGR	Sludge store structure	x	x	x	x	x
UGU	Structure for waste water treatment	x	x	x	x	x
UGV	Structure for sewage purification	x	x	x	x	x
UGX	Special structure (plant associated)	x	x	x	x	x
UGY	Structure for bridge	x	x	x	x	x
UGZ	Structure for duct	x	x	x	x	x
UH	STRUCTURE FOR CONVENTIONAL HEAT GENERATION	x	x	x	x	x
UHA	Boiler house , supporting structure , skin casing/sheeting	x	x	x	x	x
UHC	Structure for flue gas circulation , (e.g. induced draft fan)	x	x	x	x	x
UHF	Bunker building	x	x	x	x	x
UHL	Structure for boiler compressed air supply	x	x	x	x	x
UHN	Flue gas stacks	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UHP	Structure for flue gas filter system (bag filters)	x	x	x	x	x
UHQ	Structure for flue gas filter system (precipitators)	x	x	x	x	x
UHT	Structure for flue gas desulphurizing system	x	x	x	x	x
UHU	Structure for flue gas heating*	x	x	x	x	x
UHV	Structure for combustion air circulation (e.g. forced draft fan)	x	x	x	x	x
UHW	Boiler blow down structure	x	x	x	x	x
UHX	Special structure (plant associated)	x	x	x	x	x
UHY	Structure for bridge	x	x	x	x	x
UHZ	Structure for duct	x	x	x	x	x
UJ	STRUCTURE FOR NUCLEAR HEAT GENERATION	x	x	x	x	x
UJA	Reactor building containment interior structure	x	x	x	x	x
UJB	Reactor building annulus	x	x	x	x	x
UJC	Heat exchanger building	x	x	x	x	x
UJD	Steam generator building	x	x	x	x	x
UJE	Main steam and feed water valve compartment	x	x	x	x	x
UJF	Structure for equipment lock enclosure	x	x	x	x	x
UJG	Structure for gantry (reactor building)	x	x	x	x	x
UJX	Special structure (plant associated)	x	x	x	x	x
UJY	Structure for bridge	x	x	x	x	x
UJZ	Structure for duct	x	x	x	x	x
UK	STRUCTURE FOR REACTOR AUXILIARY SYSTEM	x	x	x	x	x
UKA	Reactor auxiliary building	x	x	x	x	x
UKB	Reactor ancillary building	x	x	x	x	x
UKC	Reactor service building	x	x	x	x	x
UKD	Emergency building	x	x	x	x	x
UKH	Structure for air exhaust	x	x	x	x	x
UKJ	Building for tritium extraction	x	x	x	x	x
UKS	Radio-active waste building	x	x	x	x	x
UKT	Radio-active waste storage building	x	x	x	x	x
UKX	Special structure (plant associated)	x	x	x	x	x
UKY	Structure for bridge	x	x	x	x	x
UKZ	Structure for duct	x	x	x	x	x
UL	STRUCTURE FOR STEAM , WATER , GAS CYCLES	x	x	x	x	x
ULA	Feed water pump house	x			x	x
ULB	Emergency feed water system building	x			x	x
ULC	Structure for condensate system	x			x	x
ULD	Structure for condensate polishing system	x			x	x
ULE	Structure for emergency water supply system	x			x	x
ULN	Structure for storage system of hydro electric power station			x		

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
ULP	Structure for intake system of hydro electric power station			x		
ULQ	Structure for outlet system of hydro electric power station			x		
ULR	Structure for bypass system of hydro electric power station			x		
ULX	Special structure (plant associated)	x	x	x	x	x
ULY	Structure for bridge	x	x	x	x	x
ULZ	Structure for duct	x	x	x	x	x
UM	STRUCTURE FOR MAIN MACHINE SET	x	x	x	x	x
UMA	Structure for steam turbine generator set	x			x	x
UMB	Structure for gas turbine generator set	x			x	x
UME	Structure for water turbine generator set			x		
UMG	Structure for storage pumping set			x		
UMJ	Structure for diesel set					
UMM	Structure for compressor system					
UMR	Structure for gas engine plant		x			
UMX	Special structure (plant)	x	x	x	x	x
UMY	Structure for bridge	x	x	x	x	x
UMZ	Structure for duct	x	x	x	x	x
UN	STRUCTURE FOR PROCESS ENERGY PREPARATION FOR USERS OUTSIDE	x	x	x	x	x
	POWER PLANT*	x	x	x	x	x
UNX	Special structure (plant associated)	x	x	x	x	x
UNY	Structure for bridge	x	x	x	x	x
UNZ	Structure for duct	x	x	x	x	x
UP	STRUCTURE FOR COOLING WATER SYSTEM (E.G. COOLING WATER INTAKE)	x	x	x	x	x
UPA	Cooling water intake structure	x	x	x	x	x
UPB	Service cooling water intake structure (closed loop)	x	x	x	x	x
UPC	Cooling water intake structure	x	x	x	x	x
UPD	Service cooling water intake structure (closed loop)	x	x	x	x	x
UPH	Structure for cooling water treatment	x	x	x	x	x
UPJ	Structure for service cooling water treatment (closed loop)	x	x	x	x	x
UPN	Cooling water intake channel	x	x	x	x	x
UPP	Service cooling water intake channel	x	x	x	x	x
UPQ	Biocide treatment building	x	x	x	x	x
UPS	Flushing water channel	x	x	x	x	x
UPT	Flushing water treatment structure	x	x	x	x	x
UPX	Special structure (plant)	x	x	x	x	x
UPY	Structure for bridge	x	x	x	x	x
UPZ	Structure for duct	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UQ	STRUCTURE FOR COOLING WATER SYSTEM (E.G. COOLING WATER PUMPING	x	x	x	x	x
	AND DISCHARGE)	x	x	x	x	x
UQA	Cooling water pumphouse structure	x	x	x	x	x
UQB	Service cooling water pumphouse structure (closed loop)	x	x	x	x	x
UQG	Cooling water overflow structure , surge	x	x	x	x	x
UQH	Flushing water discharge channel	x	x	x	x	x
UQJ	Cooling water sealing pit incl. cooling water aeration	x	x	x	x	x
UQK	Cooling water aeration structure	x	x	x	x	x
UQL	Intermediate reservoir for service cooling water (closed loop)	x	x	x	x	x
UQM	Service cooling water collecting pit (closed loop)	x	x	x	x	x
UQN	Cooling water discharge channel	x	x	x	x	x
UQP	Service cooling water discharge channel (closed loop)	x	x	x	x	x
UQQ	Cooling water discharge structure	x	x	x	x	x
UQR	Service cooling water discharge (closed loop)	x	x	x	x	x
UQS	Cooling water discharge channel	x	x	x	x	x
UQT	Service cooling water discharge channel (closed loop)	x	x	x	x	x
UQU	Cooling water weir structure , incl. cooling water aeration	x	x	x	x	x
UQV	Structure for artificial aeration of cooling water	x	x	x	x	x
UQW	Guide structure of cooling water channel	x	x	x	x	x
UQX	Special structure (plant associated)	x	x	x	x	x
UQY	Structure for bridge	x	x	x	x	x
UQZ	Structure for duct	x	x	x	x	x
UR	STRUCTURE FOR COOLING WATER SYSTEM (E.G. RECIRCULATION COOLING)	x	x	x	x	x
URA	Cooling tower structure (main cooling water)	x	x	x	x	x
URB	Cooling tower structure (service cooling water)	x	x	x	x	x
URC	Structure for direct cooling system (e.g. air cooled condenser structure	x	x	x	x	x
URD	Cooling tower pumphouse structure (main cooling water)	x	x	x	x	x
URE	Cooling tower pumphouse structure (service cooling water)	x	x	x	x	x
URG	Cooling tower connecting structure	x	x	x	x	x
URH	Cooling tower discharge structure	x	x	x	x	x
URJ	Cooling tower discharge channel	x	x	x	x	x
URK	Cooling tower discharge structure	x	x	x	x	x
URL	Cooling tower discharge channel	x	x	x	x	x
URM	Cooling water supply structure	x	x	x	x	x
URN	Cooling tower by-pass structure	x	x	x	x	x
URP	Cooling tower overflow structure	x	x	x	x	x
URQ	Cooling tower overflow channel	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
URX	Special structure (plant associated)	x	x	x	x	x
URY	Structure for bridge	x	x	x	x	x
URZ	Structure for duct	x	x	x	x	x
US	STRUCTURE FOR ANCILLARY SYSTEM	x	x	x	x	x
USA	Structure for air ventilation system	x	x	x	x	x
USB	Structure for heating plant	x	x	x	x	x
USC	Structure for compressed air supply	x	x	x	x	x
USG	Fire pump house structure	x	x	x	x	x
USS	Structure for Ancillary system (radio tower)	x	x	x	x	x
UST	Workshop building	x	x	x	x	x
USU	Store building	x	x	x	x	x
USV	Laboratory building	x	x	x	x	x
USX	Special structure (plant associated)	x	x	x	x	x
USY	Structure for bridge	x	x	x	x	x
USZ	Structure for duct	x	x	x	x	x
UT	STRUCTURE FOR AUXILIARY SYSTEM	x	x	x	x	x
UTA	Supply system , building for several auxiliary system	x	x	x	x	x
UTB	Central chilled water system building (air conditioning)	x	x	x	x	x
UTC	Central chilled water system building (nuclear)	x	x	x	x	x
UTF	Structure for compressor	x	x	x	x	x
UTG	Central gas supply (no fuel supply)	x	x	x	x	x
UTH	Auxiliary boiler building	x	x	x	x	x
UTJ	Auxiliary boiler stack	x	x	x	x	x
UTS	Chemical storage tank	x	x	x	x	x
UTX	Special structure (plant associated)	x	x	x	x	x
UTY	Structure for bridge	x	x	x	x	x
UTZ	Structure for duct	x	x	x	x	x
UU	STRUCTURE FOR SHAFT	x	x	x	x	x
UV	STRUCTURE FOR CHEMICAL FLUE GAS TREATMENT INCL. RESIDUE	x	x	x	x	x
	REMOVAL (FOR "HR" , "HS" AND "HT")	x	x	x	x	x
UVA	Structure for flue gas side heat exchanger	x	x	x	x	x
UVB	Structure for flue gas fan system	x	x	x	x	x
UVC	Structure for flue gas scrubber , reactor	x	x	x	x	x
UVD	Structure for absorbent/absorbent circuit	x	x	x	x	x
UVE	Structure for reagent supply incl. preparation/treatment ,	x	x	x	x	x
	storage , forwarding	x	x	x	x	x
UVF	Structure for thickening and solids dewatering , solids	x	x	x	x	x
	drying and compacting system	x	x	x	x	x
UVH	Structure for (solids/product) forwarding , storage , loading	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UVX	Special structure (plant specific)	x	x	x	x	x
UVY	Bridge structure	x	x	x	x	x
UVZ	Ducting structure	x	x	x	x	x
UX	STRUCTURE FOR EXTERNAL SYSTEM (POWER PLANT ASSOCIATED)	x	x	x	x	x
UXB	Structure for Gas Turbine Generator Sets	x	x	x	x	x
UXX	Special structure (plant associated)	x	x	x	x	x
UXY	Structure for bridge	x	x	x	x	x
UXZ	Structure for duct	x	x	x	x	x
UY	GENERAL SERVICE STRUCTURE	x	x	x	x	x
UYA	Staff facility and office building	x	x	x	x	x
UYB	Staff facility building	x	x	x	x	x
UYC	Administration building	x	x	x	x	x
UYD	Canteen	x	x	x	x	x
UYE	Gate house	x	x	x	x	x
UYF	Control gate house	x	x	x	x	x
UYG	Building for visitor information	x	x	x	x	x
UYH	Training facility	x	x	x	x	x
UYJ	Building for medical supply	x	x	x	x	x
UYL	Security fence control building	x	x	x	x	x
UYN	Locomotive shed	x	x	x	x	x
UYP	Structure for fire prevention equipment	x	x	x	x	x
UYQ	Garage building	x	x	x	x	x
UYR	Car workshop	x	x	x	x	x
UYS	Service station	x	x	x	x	x
UYV	Seismic Station	x	x	x	x	x
UYW	Weather Station	x	x	x	x	x
UYX	Special structure (plant associated)	x	x	x	x	x
UYY	Structure for bridge	x	x	x	x	x
UYZ	Structure for duct	x	x	x	x	x
UZ	STRUCTURE FOR TRANSPORT , TRAFFIC , FENCING , GARDENS AND OTHER PURPOSES	x	x	x	x	x
UZA	Plant streets and roads (incl. affiliated structure)	x	x	x	x	x
UZC	Court yard	x	x	x	x	x
UZD	Parking area	x	x	x	x	x
UZE	Structure for railway installation	x	x	x	x	x
UZF	Structure for crane and lifting equipment	x	x	x	x	x
UZH	Structure for Pollution dams	x	x	x	x	x
UZJ	Fencing and gate	x	x	x	x	x
UZK	Site gardening and equipment (incl. structure)	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
UZL	Structure for noise reduction	x	x	x	x	x
UZM	Protection structure against external influences	x	x	x	x	x
UZN	Structure for flood water protection	x	x	x	x	x
UZP	Structure for quay protection	x	x	x	x	x
UZQ	Structure for regulation of the river	x	x	x	x	x
UZR	Harbour structure	x	x	x	x	x
UZS	Jetty	x	x	x	x	x
UZT	Aircraft landing field , outdoor area	x	x	x	x	x
UZU	Structure for area safety - dog kennel	x	x	x	x	x
UZW	Housing , residential area	x	x	x	x	x
UZX	Special structure (plant associated)	x	x	x	x	x
UZY	Structure for bridge	x	x	x	x	x
UZZ	Structure for duct	x	x	x	x	x
X	**HEAVY MACHINERY (NOT MAIN MACHINE SET)**	**x**	**x**	**x**	**x**	**x**
XA	STEAM TURBINE PLANT	x	x	x	x	x
XAA	High pressure turbine	x	x	x	x	x
XAB	Intermediate pressure turbine	x	x	x	x	x
XAC	Low pressure turbine	x	x	x	x	x
XAD	Bearing assembly	x	x	x	x	x
XAG	Condensing system	x	x	x	x	x
XAH	Air ejector motive water system (if fitted separately from "XAJ")	x	x	x	x	x
	From Incl. outlet of another system	x	x	x	x	x
	To Excluding ejector inlet	x	x	x	x	x
XAJ	Air evacuation system	x	x	x	x	x
XAK	Transmission gear between prime mover and driven machine	x	x	x	x	x
	(incl. barring/turning gear)	x	x	x	x	x
XAL	Turbine drain and vent system	x	x	x	x	x
XAM	Leak-off steam system	x	x	x	x	x
XAN	IP/LP bypass station (incl. attemporator spray system)	x	x	x	x	x
XAP	LP bypass station	x	x	x	x	x
XAQ	Vent system (if separate from "XAL")	x	x	x	x	x
XAV	Lubrication oil supply system	x	x	x	x	x
XAW	Gland steam , heating and cooling system	x	x	x	x	x
XAX	Non electric control and protection equipment (incl. medium supply system)	x	x	x	x	x
XAY	Closed/open loop control and protection equipment	x	x	x	x	x
XB	GAS TURBINE PLANT	x	x	x	x	x
XBA	Turbine and compressor rotor with combined casing	x	x	x	x	x
XBB	Turbine casing and rotor	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
XBC	Compressor casing and rotor	x	x	x	x	x
XBD	Bearing assembly	x	x	x	x	x
XBH	Cooling and sealing gas system	x	x	x	x	x
XBJ	Starting up equipment	x	x	x	x	x
XBK	Transmission gear between prime mover and driven machine	x	x	x	x	x
	(incl. barring/turning gear)	x	x	x	x	x
XBL	Suction and cold gas system (inlet air/open system)	x	x	x	x	x
XBM	Combustion chamber	x	x	x	x	x
XBN	Fuel supply (liquid)	x	x	x	x	x
XBP	Fuel supply (gas)	x	x	x	x	x
XBQ	Ignition fuel supply (if separate)	x	x	x	x	x
XBR	Exhaust gas system (open/outlet system)	x	x	x	x	x
XBS	Storage system (air receiver)	x	x	x	x	x
XBT	(Operating) gas generator unit incl. combustion chamber	x	x	x	x	x
XBU	Additive system	x	x	x	x	x
	From Incl. supply system	x	x	x	x	x
	To Incl. injection system	x	x	x	x	x
XBV	Lubricating supply system	x	x	x	x	x
XBW	Seal oil system	x	x	x	x	x
XBX	Non electric control and protection equipment incl. Medium supply system	x	x	x	x	x
XBY	Closed/open loop control and protection equipment	x	x	x	x	x
XE	HYDRO TURBINE PLANT	x	x	x	x	x
XEA	Turbine (spiral casing , shaft , runner , etc)	x	x	x	x	x
XEB	Hydro turbine inlet valve	x	x	x	x	x
XED	Bearing assembly	x	x	x	x	x
XEG	Stabilising air system (aeration)	x	x	x	x	x
XEK	Transmission gear between prime mover and driven machine	x	x	x	x	x
XEL	Water depression air supply system (blowdown)	x	x	x	x	x
XEV	Lubricating medium supply system	x	x	x	x	x
XEW	Sealing water system	x	x	x	x	x
XEX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
XEY	Closed/open loop control and protection equipment	x	x	x	x	x
XJ	DIESEL ENGINE UNIT	x	x	x	x	x
XJA	Engine	x	x	x	x	x
XJB	Turbo charger , blower	x	x	x	x	x
XJG	Liquid cooling system	x	x	x	x	x
XJH	Intermediate air cooling system	x	x	x	x	x
XJK	Transmission gear between prime mover and driven machine	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
XJN	Fuel system	x	x	x	x	x
XJP	Starting up equipment (flywheel)	x	x	x	x	x
XJQ	Air suction system	x	x	x	x	x
XJR	Exhaust gas system	x	x	x	x	x
XJV	Lubricating supply system	x	x	x	x	x
XJX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
XJY	Closed/open loop control and protection equipment	x	x	x	x	x
XK	GENERATOR	x	x	x	x	x
XKA	Generator casing incl. stator , rotor and cooling equipment	x	x	x	x	x
XKB	Excitation (use only if "XKC" is insufficient)	x	x	x	x	x
XKC	Excitation	x	x	x	x	x
XKD	Bearing assembly	x	x	x	x	x
XKF	Liquid cooling (except oil cooling) incl. Intermediate cooler	x	x	x	x	x
XKG	Gas cooling (except N2 cooling) incl. H2 and CO2 supply	x	x	x	x	x
XKH	N2 cooling incl. N2 supply	x	x	x	x	x
XKQ	Exhaust gas system (if separate from "XKG" and "XKH")	x	x	x	x	x
XKU	Oil cooling system incl. intermediate cooling circuit	x	x	x	x	x
XKV	Lubricating supply system (if fitted separately for the generator)	x	x	x	x	x
XKW	Seal oil system incl. supply and treatment plant	x	x	x	x	x
XKX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
XKY	Closed/open loop control and protection equipment	x	x	x	x	x
XL	ELECTRO-MOTIVE UNIT (INCL. MOTOR , GENERATOR)	x	x	x	x	x
XLA	Motor , motor generator casing incl. stator and rotor	x	x	x	x	x
XLC	Excitation	x	x	x	x	x
XLD	Bearing assembly	x	x	x	x	x
XLF	Liquid cooling (except oil cooling) incl. Intermediate cooler and expansion unit	x	x	x	x	x
XLG	Gas cooling (except N2 cooling) incl. H2 and CO2 supply	x	x	x	x	x
XLH	N2 cooling incl. N2 supply	x	x	x	x	x
XLQ	Exhaust gas system (if separate from "XLG" and "XLH")	x	x	x	x	x
XLU	Oil cooling system incl. intermediate cooling circuit	x	x	x	x	x
XLV	Lubricating supply system (if fitted separately for the electro-motive unit	x	x	x	x	x
XLW	Seal oil system incl. supply and treatment plant	x	x	x	x	x
XLX	Control medium supply for closed/open loop control and protection equipment	x	x	x	x	x
XLY	Closed/open loop control and protection equipment	x	x	x	x	x
XP	COMMON EQUIPMENT FOR HEAVY MACHINERY SET	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
XPA	Foundation	x	x	x	x	x
XPB	Cowling	x	x	x	x	x
XPG	Rack , support	x	x	x	x	x
XPR	Forced air cooling system	x	x	x	x	x
XPS	Drying and preservation system	x	x	x	x	x
XR	GAS ENGINE PLANT	x	x	x	x	x
XV	LUBRICATION MEDIUM SUPPLY	x	x	x	x	x
XX	CONTROL MEDIUM SUPPLY	x	x	x	x	x
XXA	Hydraulic oil storage	x	x	x	x	x
XXB	Hydraulic oil supply	x	x	x	x	x
XY	CLOSED/OPEN LOOP CONTROL AND PROTECTION EQUIPMENT	x	x	x	x	x
XYA	Control desk in control room	x	x	x	x	x
XYB	Control panel in control room	x	x	x	x	x
XYC	Local control panel , desk and solenoid operated valve panel	x	x	x	x	x
XYD	PLC	x	x	x	x	x
XYE	Spare	x	x	x	x	x
XYF	Equipment room cubicle	x	x	x	x	x
XYG	Marshalling panel	x	x	x	x	x
XYH	Measurement rack	x	x	x	x	x
XYJ	Spare	x	x	x	x	x
XYK	DC supply incl. associated equipment	x	x	x	x	x
XYL	AC supply and distribution	x	x	x	x	x
XYQ	Computer equipment	x	x	x	x	x
XYW	Common equipment	x	x	x	x	x
XYX	Common equipment	x	x	x	x	x
XYY	Common equipment	x	x	x	x	x
XYZ	Common equipment	x	x	x	x	x

APPENDIX B: KKS EQUIPMENT KEY PART

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
A	MECHANICAL EQUIPMENT (MACHINERY INCLUDING DRIVEN OR HAND OPERATED)	x	x	x		x
AA	Valve, damper including actuator, rupture disk, equipment, also manual etc.	x	x	x		x
AB	Isolating element (access gates, doors, locks etc.)	x	x	x		x
AC	Heat exchanger, heat transfer surface	x	x	x		x
AE	Turning, driving, lifting and slewing unit (manipulators also)	x	x	x		x
AF	Continuous conveyor unit (escalator)	x	x	x		x
AG	Generator unit	x	x	x		x
AH	Heating, cooling and air conditioning unit	x	x	x		x
AJ	Size reduction equipment, (crushing milling plant)	x	x	x		x
AK	Pressing and packaging unit	x	x	x		x
AM	Mixer, agitator, vibrating unit	x	x	x		x
AN	Compressor, fan and blower unit	x	x	x		x
AP	Pump unit	x	x	x		x
AS	Positioning and tensioning equipment # for non-electrical variable	x	x	x		x
AT	Purifying, drying, filtering, separating and screen unit, steameam trap, equip. other than "BT"	x	x	x		x
AU	Brake, coupling and gearbox unit, not electrical converter	x	x	x		x
AV	Combustion unit	x	x	x		x
AW	Fixed workshop equipment	x	x	x		x
AX	Testing control and monitoring equipment (e.g. weighing devices)	x	x	x		x
AZ		x		x		x
B	MECHANICAL EQUIPMENT	x	x	x		x
BB	Storage equipment (vessel , tank , dam)	x	x	x		x
BE	Tunnel and trench (e.g. inspection/cable access)	x	x	x		x
BF	Foundation	x	x	x		x
BN	Ejector , injector , jet pump (attemporator)	x	x	x		x
BP	Flow restricting limiter , orifice (not for metering)	x	x	x		x
BQ	Hanger , support , frame , rack , pipe penetration , cable tray	x	x	x		x
BR	Piping , duct and channel	x	x	x		x
BS	Sound absorber (silencer)	x	x	x		x
BT	Flue gas catalytic converter module	x	x	x		x
BU	Insulation , cladding	x	x	x		x
BZ		x	x	x		x
C	DIRECT MEASURING CIRCUIT	x	x	x		x
CD	Density	x	x	x		x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
CE	Electrical quantities (e.g. current , voltage , power , electrical frequency)	x	x	x		x
CF	Flow , mass flow	x	x	x		x
CG	Distance , length , position , direction of rotation	x	x	x		x
CH	Manual input (as manually operated sensor , e.g. fire detector)	x	x	x		x
CK	Time	x	x	x		x
CL	Level (also for dividing line)	x	x	x		x
CM	Humidity (moisture)	x	x	x		x
CP	Pressure	x	x	x		x
CQ	Quality quantities (analysis , material characteristic other than "CD", "CM" and "CV")	x	x	x		x
CR	Radiation quantities	x	x	x		x
CS	Rotational speed , velocity , frequency , acceleration (mechanical)	x	x	x		x
CT	Temperature	x	x	x		x
CU	Combined quantities	x	x	x		x
CV	Viscosity	x	x	x		x
CW	Weight , force , mass	x	x	x		x
CX	Neutron flux (reactor power measurement)					
CY	Vibration , expansion	x	x	x		x
D	CLOSED LOOP CONTROL CIRCUIT	x	x	x		x
DD	Density	x	x	x		x
DE	Electrical quantities (e.g. current, voltage, power, electrical frequency)	x	x	x		x
DF	Flow, mass flow	x	x	x		x
DG	Distance, length, position direction of rotation	x	x	x		x
DK	Time	x	x	x		x
DL	Level (also for dividing line)	x	x	x		x
DM	Humidity (moisture)	x	x	x		x
DP	Pressure	x	x	x		x
DQ	Quality quantities (analysis, material characteristic other than "DD", "DM" and "DV")	x	x	x		x
DR	Radiation quantities	x	x	x		x
DS	Rotational speed, velocity frequency, acceleration mechanical)	x	x	x		x
DT	Temperature	x	x	x		x
DU	Combined quantities	x	x	x		x
DV	Viscosity	x	x	x		x
DW	Weight, force, mass	x	x	x		x
DX	Neutron flux (reactor power closed loop control)					
DY	Vibration, expansion	x	x	x		x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
E	ANALOGUE AND BINARY SIGNAL CONDITIONING	x	x	x		x
EA	Open loop control	x	x	x		x
EB	Open loop control	x	x	x		x
EC	Open loop control	x	x	x		x
ED	Open loop control	x	x	x		x
EE	Open loop control	x	x	x		x
EG	Alarm/annunciation	x	x	x		x
EH	Alarm/annunciation	x	x	x		x
EJ	Alarm/annunciation	x	x	x		x
EK	Alarm/annunciation	x	x	x		x
EM	Process computer (also for operating and monitoring)	x	x	x		x
EN	Process computer (also for operating and monitoring)	x	x	x		x
EP	Process computer (also for operating and monitoring)	x	x	x		x
EQ	Process computer (also for operating and monitoring)	x	x	x		x
ER	Reactor protection	x	x	x		x
EU	Combined analogue and binary signal processing	x	x	x		x
EW	Protection	x	x	x		x
EX	Protection	x	x	x		x
EY	Protection	x	x	x		x
EZ	Protection	x	x	x		x
F	INDIRECT MEASURING CIRCUIT	x	x	x		x
FD	Density	x	x	x		x
FE	Electrical quantities (e.g. current, voltage, power, electrical frequency)	x	x	x		x
FF	Flow , mass flow	x	x	x		x
FG	Distance, length, position, direction of rotation	x	x	x		x
FK	Time	x	x	x		x
FL	Level (also for dividing line)	x	x	x		x
FM	Humidity (moisture)	x	x	x		x
FP	Pressure	x	x	x		x
FQ	Quality quantities (analysis, material characteristic other than "FD", "FM" and "FV")	x	x	x		x
FR	Radiation quantities	x	x	x		x
FS	Rotational speed, velocity, frequency, acceleration (mechanical)	x	x	x		x
FT	Temperature	x	x	x		x
FU	Combined quantities	x	x	x		x
FV	Viscosity	x	x	x		x
FW	Weight, force, mass	x	x	x		x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
FX	Neutron flux (reactor power measurement)					
FY	Vibration, expansion	x	x	x		x
G	ELECTRICAL EQUIPMENT	x	x	x		x
GA	Sub-distributor/penetration	x	x	x		x
GB	Sub-distributor/penetration	x	x	x		x
GC	Sub-distributor/penetration	x	x	x		x
GD	Sub-distributor/penetration	x	x	x		x
GE	Sub-distributor/penetration	x	x	x		x
GF	Sub-distributor/penetration general	x	x	x		x
GG	Penetration - cable cover	x	x	x		x
GH	Cubicle , box for process control and electrical	x	x	x		x
GJ	Processing and storage equipment for automation systems	x		x		x
GK	Periphery equipment for information preparation	x	x	x		x
GM	Sub-distributor for GPO telecommunication system	x	x	x		x
GN	Network equipment	x	x	x		x
GP	Sub-distributor for lighting	x	x	x		x
GQ	Power socket	x	x	x		x
GR	Direct current power source device (battery)	x	x	x		x
GS	Switchgear equipment (not process related)	x	x	x		x
GT	Transformer winding	x	x	x		x
GU	Converter equipment including battery charger	x	x	x		x
GV	Structure related earthing and lightning protection, surge arrestor	x	x	x		x
GW	Actuating device for electrical quantities e.g. (tap changer)	x	x	x		x
GX	Actuating equipment for electrical variables	x	x	x		x
GY	Sub-distributor for telecommunication system (not GPO)	x	x	x		x
GZ	Hangers, supports and racks for electrical and control and instrumentation equipment	x	x	x		x
H	SUB-ASSEMBLY OF MAIN AND HEAVY MACHINE	x	x	x		x
HA	Machine static assembly	x	x	x		x
HB	Machine rotating assembly	x	x	x		x
HD	Bearing assembly	x	x	x		x
J	NUCLEAR ASSEMBLY					
JA	Absorber assembly					
JB	Fuel assembly					
JC	Breeder assembly					
JD	Throttle body/assembly					
JE	Burnable absorber assembly					

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
JF	Reflector assembly					
JG	Plenum assembly					
JM	Moderator assembly					
JN	Neutron source					
JS	Shielding equipment					
JZ	Special assembly					

APPENDIX C: KKS COMPONENT KEY PART

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
-	ELECTRICAL UNIT COMPONENT	x	x	x	x	x
-A	Assembly and sub-assembly	x	x	x	x	x
-B	Transducer for non-electric to electric quantities and reverse, vice-versa	x	x	x	x	x
-C	Capacitor	x	x	x	x	x
-D	Binary element, time delay equipment, memory equipment	x	x	x	x	x
-E	Special unit component	x	x	x	x	x
-F	Protection equipment (Fuse, overload device etc.)	x	x	x	x	x
-G	Generator, power supply	x	x	x	x	x
-H	Signalling equipment	x	x	x	x	x
-K	Relay, contactor	x	x	x	x	x
-L	Inductance	x	x	x	x	x
-M	Electrical motor	x	x	x	x	x
-N	Amplifier , controller	x	x	x	x	x
-P	Measuring device , testing equipment	x	x	x	x	x
-Q	Power switching device	x	x	x	x	x
-R	Resistance	x	x	x	x	x
-S	Switch , selector	x	x	x	x	x
-T	Transformer	x	x	x	x	x
-U	Modulator , transducer from electric to electric quantities	x	x	x	x	x
-V	Vacuum tube, semi-conductor	x	x	x	x	x
-W	Current transmission system, wave guide antennae	x	x	x	x	x
-X	Terminal, plug , socket outlet	x	x	x	x	x
-Y	Electric actuated equipment, e.g. magnet, solenoid not electric motor	x	x	x	x	x
-Z	Cable termination, compensating equipment, filter, limiter	x	x	x	x	x
K	MECHANICAL UNIT COMPONENT (PRODUCTION)	x	x	x	x	x
KA	Gate valve , globe valve , cock , damper , rupture disk , orifice etc.	x	x	x	x	x
KB	Gate , door , dam door	x	x	x	x	x
KC	Heat exchanger , cooler	x	x	x	x	x
KD	Vessel , storage tank , surge tank	x	x	x	x	x
KE	Turning , driving , lifting , and slewing devices	x	x	x	x	x
KF	Endless conveyor , (escalator , conveyor)	x	x	x	x	x
KJ	Crushing device	x	x	x	x	x
KK	Pressing and packaging device	x	x	x	x	x
KM	Mixer , stirrer	x	x	x	x	x
KN	Compressor , fan , blower , ventilator	x	x	x	x	x

Code	Description	Fossil	Gas	Hydro	Nuclear	Solar
KP	Pump	x	x	x	x	x
KT	Purifier , drier , filter , separator	x	x	x	x	x
KV	Burner	x	x	x	x	x
KW	Workshop device	x	x	x	x	x
M	MECHANICAL UNIT COMPONENT (AUXILIARY)	x	x	x	x	x
MB	Brake	x	x	x	x	x
MF	Foundation	x	x	x	x	x
MG	Gearbox	x	x	x	x	x
MK	Clutch and coupling	x	x	x	x	x
MM	Engine (not electric)	x	x	x	x	x
MR	Piping part , ducting component	x	x	x	x	x
MS	Positioning drive (not electric)	x	x	x	x	x
MT	Turbine	x	x	x	x	x
MU	Transmission device , other than coupling and gearbox	x	x	x	x	x
Q	UNIT COMPONENT (NOT ELECTRICAL) FOR CONTROL AND INSTRUMENTATION	x	x	x	x	x
QB	Sensor/transducer (only , if not integrated in "QP")	x	x	x	x	x
QH	Annunciation system	x	x	x	x	x
QN	Controller , fly bolt governor	x	x	x	x	x
QP	Measuring device (transmitter) testing equipment	x	x	x	x	x
QR	Impulse pipework	x	x	x	x	x
QS	Equalising chamber	x	x	x	x	x
QT	Protection tube , thermowell (only for protection of the sensor)	x	x	x	x	x