

APPENDIX III

STRUCTURE OF THE BUYER CODE NUMBER SYSTEM

DOCUMENT LIST AND ELECTRONIC TRANSMITTAL

1. INTRODUCTION:

1.1 This procedure covers the numbering of all documentation deliverables associated with the Unit Project.

1.2 The document numbering procedure also covers all vendor/supplier produced documentation, and full details of the various sequence codes are given.

1.3 All documentation numbering will be based on the BUYER standard numbering system as laid out in the Contract.

1.4 The project numbering system has been developed in such a way as to aid computerized data management and reporting facilities.

2. RESPONSIBILITIES:

2.1 It is the responsibility of SELLER personnel to ensure that all documentation deliverables are numbered in accordance with both this procedure and BUYER standards.

3. GENERAL:

3.1 Symbol Key

A - Identifies a mandatory Alpha character

N - Identifies a mandatory Numeric character

3.2 General

3.2.1 Refer to the notes at the end of each section for project specific variations.

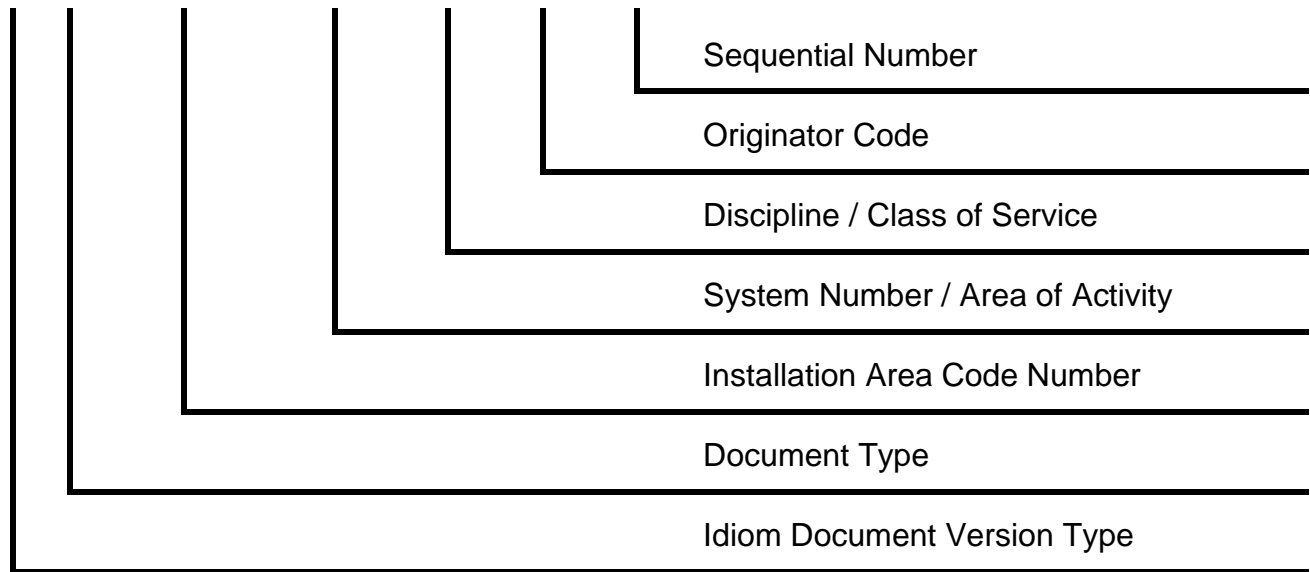
4. DOCUMENT DELIVERABLE NUMBERING

4.1 Design Documentation & Requisitions

4.1.1 All design drawings, documentation and requisitions will be numbered using the following format:

4.1.2 Sample Number:

A - AA - NNNN.NN - NNNN - NNN - AAA - NNN



4.1.3 Document Type - two alpha characters (AA as per Sample Number in the item 4.1.2):

DE - Drawings (P&ID's, plans, sketches, graphics, curves, tables, diagrams preliminary drawings etc.)

ET - Technical Specifications (technical breakdown, design criteria, engineering specifications, procedures, philosophies etc.)

FD - Data sheets

IS - Isometrics

LD - Document List

LI - Lists (instrumentation, materials, equipment, schedules etc.)

MA - Operating and Maintenance Manual

MC - Calculations Reports and studies

MD - Description memorandum - premises (Naval, Structures, Process)

PT - Technical Analysis

RM - Materials requisitions

RL - Reports

4.1.4 Language Document Version Type - one alpha character (A as per Sample Number in the item 4.1.2)

I - English.

4.1.4.1 For Portuguese language document version there is no alpha character.

4.1.5 Installation Area Code Number (NNNN.NN as per Sample Number in the item 4.1.2)

3010.2Q - P-86

4.1.6 System Number/Area of Activity (NNNN as per Sample Number in the item 4.1.2)

4.1.6.1 Four numeric characters as per listed in N-1710 ANNEX C - AREA OF ACTIVITY attached in this Appendix



03.03 - EXHIBIT III - APPENDIX III_attachment ANNEX C.pdf

4.1.7 Discipline/Class of Service

4.1.7.1 Three numeric characters as per listed in N-1710 ANNEX D – SERVICE CATEGORIES attached in this Appendix



03.03 - EXHIBIT III - APPENDIX III_attachement ANNEX D.pdf

4.1.8 Sequential Number - three numeric characters (NNN as per Sample Number in the item 4.1.2)

Sequence number 001, 002, 003...etc.

4.1.9 Originator Code – three alpha characters - (AAA as per Sample Number in the item 4.1.2)

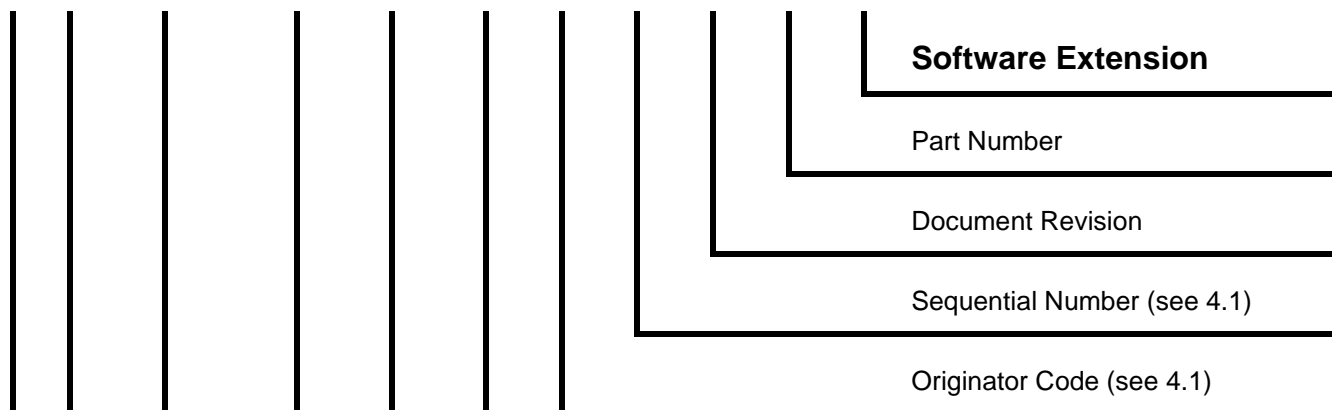
4.1.9.1 – During the engineering Kick of meeting, BUYER will inform this code to SELLER use.

4.2 Electronic Files

4.2.1 Technical documents electronic files will be identified using the following format:

4.2.1.1 Sample Number:

A-AA-NNNN.NN-NNNN-NNN-AAA-NNN A PNNN.EXT



					Discipline/Class of Service (see 4.1)
					System Number/Area of Activity (see 4.1)
					Installation Area Code Number (see 4.1)
					Document Type (see 4.1)
					Idiom Document Version Type

4.2.2 Document Revision - one alpha character - Note: No numerical character

4.2.2.1 Revision sequence is 0, A, B, C, D...etc.

4.2.3 Part Number - two numeric characters

4.2.3.1 Sequence number to be used when the document has several electronic. See example on next page.

4.2.4 Software Extension

4.2.4.1 Original software identification extension.

Example: Document composed by three files

Document - I-MA-9999.99-6520-940-PPP-001; Rev. B:

Electronic Files - I-MA-9999.99-6520-940-PPP-001_B_P001.doc;
I-MA-9999.99-6520-940-PPP-001_B_P002.dgn;
I-MA-9999.99-6520-940-PPP-001_B_P003.dgn

5. BUYER EDM LOADERS TO BE USED BY SELLER

During the Engineering Kick of Meeting, BUYER will provide to SELLER Loaders files to be used by SELLER to load documentation in the BUYER's Electronic Document Management (EDM) system.

Annex C - Area Of Activity**List Of Codes**

Contents	Pages
0000 - General.....	2
1000 - Oil Drilling, Production And Treatment.....	2
2000 - Process Units - Refining.....	6
3000 - Process Units - Chemical, Petrochemical, And Fertilizers.....	9
4000 - Process Units - Alternative Energy Sources.....	11
5000 - Utilities, Units And Auxiliary Systems.....	13
6000 - Transport, Transfer, And Tankage.....	17
7000 - Special Distribution Systems And Electricity.....	22
8000 - Areas, Buildings, And Support And Temporary Facilities.....	23
9000 - Prorated Costs And/Or Costs Not Incorporated Into The Job.....	26

0000 - GENERAL**1000 - Oil Drilling, Production And Treatment****1100 - Drilling****1110 - Rig With Components**

- 1111 - Drilling Derrick
- 1112 - Crown Block with Movement Compensator for Drilling String
- 1113 - Drilling Deck Mobile Equipment

1120 - Drilling Deck Equipment And Systems

- 1121 - Drilling Control
- 1122 - Drawworks
- 1123 - Rotating Table, Top Drive and Associated Equipment
- 1124 - Tensioning Systems
- 1125 - High Pressure Air System for Tensioners and Compensators

1130 - Mud And Bulk Systems

- 1131 - Low Pressure Mud System
- 1132 - High Pressure Mud System
- 1133 - Bulk Storage and Transfer System

1140 - Well Control Equipment And Systems

- 1141 - BOP Stack
- 1142 - BOP Control System
- 1143 - Diverter with Control System
- 1144 - Riser System including choke and kill lines

1150 - Material Handling Equipment And Systems

- 1151 - Pipe Handling System
- 1152 - BOP Conveying System
- 1153 - Lifting Devices (winches, traveling cranes, monorails, etc.)

1160 - Service Equipment And Systems

- 1161 - Cementing Unit
- 1162 - Well Test System

1170 - Subsea Wellhead Equipment**1180 - Coating And Cementing Materials And Equipment**

**1200 - Production****1210 - Well**

- 1211 - Satellite Manifold (Onshore Manifold)
- 1212 - Oil and Gas Transfer and Metering Station

1220 - Process Units

- 1221 - Gathering Station
- 1222 - Oil Treatment Station
- 1223 - Petroleum Processing (Mobile Units or Platforms)
- 1224 - Fluid Station (Completion and Stimulation Fluids)
- 1225 - Petroleum Vapor Recovery
- 1226 - Oil Fractionation Unit
- 1227 - Glycol Regeneration Unit

1230 - Natural Gas Units

- 1231 - Processing and Handling Unit (Compression, Distribution, etc)
- 1232 - Liquefaction Unit
- 1233 - Dehydration Unit
- 1234 - Sulfur Removal Unit
- 1235 - CO₂ Recovery Unit
- 1236 - Condensate Stabilization Unit
- 1237 - Condensate Processing Unit
- 1238 - Natural Gas Cooling Unit
- 1239 - Natural Gas Storage Unit

1240 - Artificial Lift (Primary Recovery)

- 1241 - Mechanical Pumping System
- 1242 - Hydraulic Pumping System
- 1243 - Electrical Centrifugal Pumping System
- 1244 - Gas Lift System

1250 - Oil Recovery (Secondary And Tertiary Recovery)

- 1251 - Water Injection System
- 1252 - Gas Injection System
- 1253 - Steam Injection System
- 1254 - CO₂ Injection System
- 1255 - "In-Situ" Combustion System
- 1256 - Caustic Soda Injection System

1260 - Injection Of Chemicals For Production

- 1261 - Chemical Injection in Oil or Gas
- 1262 - Chemical Injection in Oily Waters
- 1263 - Chemical Injection in Injection or Intake Water

1300 - Structures Of Offshore Production And Drilling Units**1310 - Fixed Platform Structures**

- 1311 - Jacket (Includes Piles, Mooring Place, Fenders in General, Lugs, Conductor Guides, Mud Mats)
- 1312 - Deck (Upper, Middle, and Lower) and Auxiliary Structures (Stairways, Catwalks, Crane Pedestals)
- 1313 - Helideck
- 1314 - Support Structures of Flares
- 1315 - Bridges for Interconnecting Platforms

1320 - Semi-Submersible Platform Structures

- 1321 - Floater (Pontoon)
- 1322 - Column (Leg)
- 1323 - Deck and Auxiliary Structures, Trailers and Fenders
- 1324 - Mooring System (Anchoring)
- 1325 - Anti-Flood System
- 1326 - Drilling Deck
- 1327 - Helideck

1330 - Jack-Up Platform Structures

- 1331 - Leg
- 1332 - Deck and Auxiliary Structures

1340 - Tension Leg Platform (Tlp) Structures

- 1341 - Pontoon
- 1342 - Column (Leg)
- 1343 - Deck and Auxiliary Structures
- 1344 - Tendon
- 1345 - Foundation

1350 - Unit And/Or Storage (Fpso Or Fso Type)

- 1351 - Hull
- 1352 - Deck and Auxiliary Structures, Trailer, and Fenders
- 1353 - Helideck
- 1354 - Support Structures of Flares
- 1355 - Support Structure of Turret (Casing)
- 1356 - Turret Structure
- 1357 - Mooring System (Anchoring)
- 1358 - Cargo Tanks and Empty Spaces (Voids and Cofferdams)
- 1359 - Offloading System
- 135A - Forward offloading hose string
- 135B - Forward mooring system
- 135C - Forward emergency offloading hose string
- 135D - After offloading hose string
- 135E - After mooring system
- 135F - After emergency offloading hose string
- 135G - Portside Pull-back system
- 135H - Starboard Pull-back system

1360 - Estruturas de Navio-Sonda

- 1361 - Hull
- 1362 - Deck and Auxiliary Structures
- 1363 - Helideck

1400 - Modular Facilities**1410 - Modules (See Note)**

- 1411 - Module 1
- 1412 - Module 2
- 1413 - Module 3
- 1414 - Module 4
- 1415 - Module 5
- 1416 - Module 6
- 1417 - Module 7
- 1418 - Module 8
- 1419 - Module 9

1420 - Modules (See Note)

- 1421 - Module 10
- 1422 - Module 11
- 1423 - Module 12
- 1424 - Module 13
- 1425 - Module 14
- 1426 - Module 15
- 1427 - Module 16
- 1428 - Module 17
- 1429 - Module 18

1430 - Modules (See Note)

- 1431 - Module 19
- 1432 - Module 20

NOTE For documents with various modules, "1400" shall be used.

1500 - Subsea Facilities**1510 - Production Units**

- 1511 - Subsea Template And Its Piles
- 1512 - Subsea Manifold (PLEM)
- 1513 - Articulated Towers (for Process or Loading)
- 1514 - Manifold Center
- 1515 - Subsea Template-Manifold
- 1516 - Wet Christmas Tree (WCT)
- 1517 - Atmospheric Manifold
- 1518 - Subsea Separation Systems
- 1519 - Flexible or Rigid Pipelines

**1520 - Auxiliary Equipment/Tools**

- 1521 - Remote Operation Vehicle (ROV)
- 1522 - Pigging
- 1523 - Workover Equipment Control System (IWOCs)

1600 - Extraction**1610 - Mining****1620 - Solid Preparation**

- 1621 - Crushing Unit
- 1622 - Fines Utilization Unit (Sintering, Briquetting, Pelleting)

2000 - Process Units - Refining**2001 - Helideck (Cancelled, Use 8277 - Helideck)****2100 - Fractionation Processes****2110 - Crude Fractionation Processes**

- 2111 - Atmospheric Distillation Unit
- 2112 - Vacuum Distillation Unit
- 2113 - Asphalt Unit
- 2114 - Atmospheric and Vacuum Distillation Unit

2120 - Product Fractionation Processes

- 2121 - Gas Recovery Unit
- 2122 - Naphtha Stabilization Unit
- 2123 - Solvents Unit
- 2124 - Refinery Gas Processing Unit
- 2125 - Hexane Unit
- 2126 - Aviation Gasoline Unit
- 2127 - Light Hydrocarbon Refinery Processing Unit (UPHLR)

2150 - C5+ Fractionation Unit**2200 - Conversion Processes****2210 - Thermal Conversion Processes**

- 2211 - Thermal Cracking Unit
- 2212 - Delayed Coker Unit
- 2213 - Pyrolysis Unit
- 2214 - Visbreaker Unit

2220 - Catalytic Conversion Processes

- 2221 - Catalytic Cracking Unit
- 2222 - Catalytic Reforming Unit
- 2223 - Alkylation Unit
- 2224 - Hydrocracking Unit
- 2225 - Sulfur Recovery Unit
- 2226 - Hydroisomerization Unit
- 2227 - Isooctane Unit
- 2228 - NOx and SOx Emission Abatement System

2300 - Treatment Processes**2310 - Hydrogenation Processes**

- 2311 - Hydrogen Generation Unit by Refurbishing
- 2312 - Hydrodesulfurization Unit
- 2313 - Hydrotreating Unit (HDT, JET FUEL and DIESEL)
- 2314 - Hydrofinishing Unit
- 2315 - Coke Naphtha Hydrotreating Unit
- 2316 - Cracked Naphtha Hydrodesulfurization Unit
- 2317 - Aromatic Stream Hydrogenation Unit
- 2318 - Olefinic Stream Hydrogenation Unit
- 2319 - Diethanellamine Unit - UDEA (CANCELLED)
- 231A - Hydrogen Generation Unit by Electrolysis

2320 - Removal Processes

- 2321 - Caustic Washing Unit
- 2322 - Sweetening Unit
- 2323 - H₂S and/or CO₂ Removal Unit
- 2324 - Acid Washing Unit
- 2325 - Deasphalting Unit
- 2326 - Solvent Dearomatization Unit
- 2327 - Tail Gas Unit
- 2328 - MEA/DEA/MDEA Amine Removal Unit
- 2329 - Light Refinery Hydrocarbon Treatment Unit
- 232A - Hydrogen Recovery Unit

2330 - Various Treatments

- 2331 - Extractive Regenerative Caustic Treatment (former MEROX Treatment)
- 2332 - Bender Treatment
- 2333 - Gasoline Treatment
- 2334 - Diesel Drying

2340 - Other Hydrogenation Processes

- 2341 - Unstable Currents Hydrotreating Unit

2350 - Regeneration Process

- 2351 - MEA/DEA/MDEA Amine Regeneration Unit

**2400 - Lubricant And Paraffin Production****2410 - Extraction Processes**

- 2411 - Oil Dewaxing Unit
- 2412 - Dearomatization Unit

2420 - Paraffin Production

- 2421 - Wax Deoiling Unit
- 2422 - Percolation Unit
- 2423 - N-Paraffin Production Unit
- 2429 - Paraffin Tablet Packaging Unit

2430 - Wax And Lubricant Hydrogenation

- 2431 - Wax Hydrogenation Unit
- 2432 - Lube Oil Hydrogenation Unit

2440 - Naphthenic Lubricant Unit**2500 - Oxygenate Production Processes**

- 2510 - MTBE Unit
- 2511 - TAME Unit

2800 - Pilot Units

- 2801 - Process Settings of Quick Conversion Research Unit
- 2807 - Pitch Process Settings Research Unit
- 2808 - Pitch Research Unit
- 2812 - Large Pilot Coker Unit
- 2813 - Continuous Coker Pilot Unit
- 2815 - Jet Impingement Laboratory
- 2817 - Mixing and Online Certification Research Pilot Unit
- 2828 - Hydrocyclone Research Unit
- 2845 - Hot Mud Bed Reactor Studies Unit
- 2860 - Combustion Laboratory
- 2880 - Instrumentation Technology Research and Validation Unit

2900 - Miscellaneous Processes**2910 - Raw Material Production Processes**

- 2911 - Ethylene Unit
- 2912 - Propylene Unit

2920 - Formula 1 Gasoline Production Processes

- 2921 - Formula 1 and Special Fuel Formulation Unit



3000 - Process Units - Chemical, Petrochemical, And Fertilizers

3100 - Raw Material Production Processes For Petrochemical

3110 - Fractionation Processes

- 3111 - Naphtha Fractionation Unit
- 3112 - Aromatic Fractionation Unit

3120 - Thermal Conversion Processes

- 3121 - Pyrolysis Unit
- 3122 - Thermal Hydrodealkylation Unit

3130 - Separation Processes

- 3131 - Aromatic Extraction Unit
- 3132 - Butadiene Extractive Distillation Unit
- 3133 - Paraxylene Adsorption Unit

3140 - Catalytic Conversion Processes

- 3141 - Catalytic Dealkylation Unit
- 3142 - Aromatic Transalkylation Unit
- 3143 - Xylene Isomerization Unit
- 3144 - Catalytic Reforming Unit
- 3145 - Diene Hydrogenation (Selective) Unit
- 3146 - Methanol Unit
- 3147 - Pyrolysis Gasoline Hydrogenation Unit
- 3148 - Styrene Unit

3150 - Production Processes For Petrochemicals

- 3151 - Acetic Acid
- 3152 - Formic Acid
- 3153 - Methanol
- 3154 - Formaldehyde
- 3155 - Melamine

3200 - Fertilizer Production Processes

3210 - Nitrogenated Fertilizers

- 3211 - Ammonia Unit
- 3212 - Urea Unit
- 3213 - Ammonium Nitrate Unit
- 3214 - Ammonium Sulfate Unit
- 3215 - Automotive Liquid Reducing Agent Unit (ARLA32)
- 3216 - Urea Granulation Unit
- 3217 - Melamine Unit
- 3218 - Urea Pearl Unit

**3220 - Phosphated Fertilizers**

- 3221 - Phosphoric Acid Unit
- 3222 - Ammonium Monophosphate Unit
- 3223 - Ammonium Diphosphate Unit
- 3224 - Single Superphosphate Unit
- 3225 - Triple Superphosphate Unit

3300 - Polymer Production Processes**3310 - Synthetic Resin Production Processes**

- 3311 - Styrene-Acrylonitrile (SAN) Resin Unit

3320 - Elastomer And Lattice Production Processes

- 3321 - Liquid Polybutadiene Unit

3400 - Inorganic Processes**3410 - Acid Production**

- 3411 - Nitric Acid Unit
- 3412 - Sulfuric Acid Unit

3420 - Clay Production

- 3421 - Activated Acid Unit

3490 - Catalyst Production

- 3491 - Alumina Catalyst Unit
- 3492 - Zeolytic Catalyst Unit
- 3493 - Ex-Situ Catalyst Regeneration Unit
- 3494 - Catalyst Development Unit

3500 - Organic Processes**3510 - Chlorination Processes**

- 3511 - Benzene Chlorination Units

3520 - Nitration Processes**3530 - Emulsification Processes**

- 3531 - Explosive Emulsion Unit

**3590 - Dye Production Processes**

3591 - Indigo Dye Unit

3800 - Pilot Units

3810 - Nitrogen Fertilizers
 3811 - Mixed Urea Pilot Unit
 3812 - Drying by Atomization Pilot Unit
 3813 - FCC Catalyst Preparation Pilot Unit - Jade
 3814 - Ion Exchange Pilot Unit
 3815 - Zeolites Crystallization Pilot Unit
 3816 - Multipurpose Pilot Unit - Supral

4000 - Process Units - Alternative Energy Sources**4100 - Biomass****4110 - Ethanol Production**

4111 - Juice Extraction Unit
 4112 - Starch Extraction and Hydrolysis Unit
 4113 - Fermentation Unit
 4114 - Distillation Unit
 4115 - Broth Treatment Unit
 4116 - Broth Evaporation Unit
 4117 - Ethanol Dehydration Unit
 4118 - Vinasse Concentration/Treatment Unit

4120 - Biomass Processing

4121 - Biomass Gasification Unit
 4122 - Bagasse Conditioning Unit
 4123 - Biogas Generation Unit
 4124 - Lignocelluloses Ethanol Production Unit

4200 - Alcohol Chemistry**4210 - Raw Material Production**

4211 - Alcohol Ethylene Production Unit
 4212 - Alcohol Ethylene Purification Unit

4300 - Shale**4310 - Shale Processing**

4311 - Shale Retorting Unit
 4312 - Shale Oil Distillation Unit
 4313 - Shale Treatment Unit
 4314 - Oil Dust Separation Unit

**4400 - Coal****4410 - Coal Processing**

4411 - Coal Gasification Unit

4500 - Mining

4501 - Soil Recovery Unit
 4502 - Rock Dismantling Unit
 4503 - Sterile Removal Unit
 4504 - Excavation and Loading Unit

4600 - Biofuels Production

4601 - Oil Production Unit (cancelled, use 4610)
 4602 - Transesterification Unit (cancelled, use 4621)
 4603 - External Complementary System (cancelled)

4610 - Treatment Processes

4611 - Vegetable Oil Refining Unit
 4612 - Glycerin Purification Unit
 4613 - Pre-Treatment Unit for Oils, Fats and Fatty Acids

4620 - Conversion Processes

4621 - Transesterification Unit
 4622 - Esterification Unit
 4623 - Hydroisomerization Unit
 4624 - Hydroprocessing Unit for Oils, Fats and Fatty Acids (HEFA)

4700 - Solar Energy**4800 - Pilot Units****4810 - Shale**

4811 - Multipurpose Pyrolysis Research Unit (former Unit Petrosix pilot)
 4812 - Pilot Ore Treatment Unit
 4814 - Oil Dust Separation Pilot Unit
 4815 - Solar-photovoltaic and renewable hydrogen Pilot Unit

4900 - Vegetable Oil Production**4910 - Raw Material Preparation Processes****4920 - Vegetable Oil Extraction Processes**

4921 - Mechanical Extraction Unit



- 4922 - Solvent Extraction Unit
- 4923 - Almond Oil Extraction Unit

4930 - Treatment Processes

- 4931 - Pie/Bal Conditioning Unit
- 4932 - Composting Unit

5000 - Utilities, Units And Auxiliary Systems

5100 - Utilities

5110 - Water Intake And Supply

- 5111 - Salt Water Intake
- 5112 - Fresh Water Intake
- 5113 - Water Pipeline (Aqueducts)
- 5114 - Water Tank
- 5115 - Fresh Water Tankage and Distribution
- 5116 - Artesian Wells
- 5117 - Unidirectional Feed Tank or Unidirectional Tower

5120 - Treatment, Cooling, And Heating Of Water And Thermal Fluids

- 5121 - Water Treatment Unit
- 5122 - Water Desalination Unit
- 5123 - Condensate Treatment Unit
- 5124 - Water Cooling Unit (Cooling Towers)
- 5125 - Water Heating Unit
- 5126 - Acid Water Treating Unit
- 5127 - Thermal Fluid Heating Unit
- 5128 - Water Demineralization or Polishing Unit
- 5129 - Air Cooling or Heating Unit
- 512A - Steam Tempering System
- 512B - Oil Cooling System
- 512C - Steam Ejector System

5130 - Utilities Center

- 5131 - Central Steam Generation Station
- 5132 - Electrical or Thermal Generation System
- 5133 - Central Liquid Fuel Station
- 5134 - Compressed Air Station
- 5135 - Fuel Gas Station
- 5136 - Instrument Air Station
- 5137 - Service Air Station
- 5138 - Starting Air Station
- 5139 - Hydraulic Station

5140 - Electric Energy System

- 5141 - Transmission System (External Lines and Associated Equipment)



- 5142 - Main Entrance Substation (Utility Company only)
- 5143 - Normal Electrical Distribution System (Networks and Associated Equipment)
- 5144 - Auxiliary Substations
- 5145 - Normal Lighting System (Networks, Panels, and Associated Equipment)
- 5146 - Grounding System and Lightning Protection System (Grounding, Grid, Lightning Arresters, Descents, and Associated Equipment)
- 5147 - Main Generation Station (Generators, Panels, Substation when only for Generation or Mixed Generation / Utility Company and Associated Equipment)
- 5148 - Essential Electrical Distribution System (Networks, Panels, and Associated Equipment)
- 5149 - Essential Lighting System (Networks, Panels, and Associated Equipment)

5200 - Auxiliary Units And Systems

5210 - Product Preparation

- 5211 - Tetraethyl Lead Unit
- 5212 - Asphalt Mixing Unit

5220 - Final Product Treatment

- 5221 - LPG Retreating Unit
- 5222 - Dye Addition Unit
- 5223 - Odorization Unit

5230 - Product Packaging

- 5231 - Solids Handling and Packaging
- 5232 - Solids Storage

5240 - Gas Generation

- 5241 - Inert Gas Generation Unit
- 5242 - Gas Nitrogen System

5250 - Acclimatization Systems

- 5251 - Ventilation (Cancelled - Use 5254 and 5255)
- 5252 - Air Conditioning
- 5253 - Cooling
- 5254 - Ventilation - Supply
- 5255 - Ventilation - Exhaust
- 5256 - Dehumidify System

5260 - Auxiliary Systems

- 5261 - Emergency Generation System (Generators, Substation, Panels, and Associated Equipment)

- 5262 - Auxiliary Generation System (Generators, Substation, Panels, and Associated Equipment)
- 5263 - Emergency Lighting System (Networks, Panels, and Associated Equipment)
- 5264 - Telecommunications Energy System (Networks, Panels and Associated Equipment)
- 5265 - Direct Current and UPS System (Networks, Panels, UPSs, Battery Chargers, Rectifiers, and Associated Equipment)
- 5266 - Load Handling Unit
- 5267 - Cathodic Protection System (Networks, Panels, and Associated Equipment)
- 5268 - Pull In/Pull Out Station
- 5269 - Electrical Emergency Distribution System (Networks, Panels, and Associated Equipment)

5270 - Auxiliary Systems

- 5271 - Washing of Cargo Tanks ("COW" and "SWW")
- 5272 - Petroleum Asphalt Waste Heating System
- 5273 - Caustic Soda Solution Preparation Station
- 5274 - Gas Turbines Air Compressors Cleaning Station
- 5275 - Online chromatography system

5280 - Air Intake/Recovery System

- 5281 - Vacuum generator

5300 - Waste Systems**5310 - Sanitary Wastewater**

- 5311 - Sanitary Wastewater Network
- 5312 - Sanitary Wastewater Treatment Unit

5320 - Industrial Wastewater

- 5321 - Clean Storm Water System (Collection, Flow, Grading, and Desanding)
- 5322 - Contaminated System (Collection, Flow, Flow Division, Accumulation, Grading, and Desanding)
- 5323 - Oily System (Collection, Flow, Flow Division, and Accumulation)
- 5324 - Other Systems (Acid Waters, Caustic Drainage, Hydrogen Sulfide Spent Sodas, Phenolic Sodas and Others)

5330 - Effluent Treatment

- 5331 - Primary Treatment (Oil and Water Separation and Flotation)
- 5332 - Secondary Treatment (Biological or Chemical Treatment)
- 5333 - Tertiary Treatment (Complementary Treatment)
- 5334 - Effluent Treatment Unit
- 5335 - Ballast Tankage
- 5336 - Slop Tankage
- 5337 - Slop Distribution
- 5338 - Mud and Oily Slurry Drying System



NOTE The nomenclatures Industrial Waste Treatment Unit (UTDI), Industrial Waste Treatment Station (ETDI) or Effluent Treatment Station (ETE) are also used.

5340 - Outfall**5400 - Safety Systems****5410 - Product Discharge Systems**

- 5411 - Emergency Blow Down System
- 5412 - Flare System
- 5413 - High Pressure Burner
- 5414 - Low Pressure Burner
- 5415 - Atmospheric Vent System

5420 - Fire Fighting System

- 5421 - Fire Fighting Water Reservoir
- 5423 - Fire Fighting Water System
- 5424 - Foam System
- 5425 - Inert Gas System (CO₂, Halon)
- 5426 - Fire Fighting Equipment Shelter
- 5427 - Fire Fighting Training Area
- 5428 - Portable Fire Fighting System

5430 - Salvage And Abandonment System

- 5431 - Salvage System
- 5432 - Passive Protection
- 5433 - Escape Routes
- 5434 - Personal Protection Equipment (PPE)
- 5435 - Collective Protection Equipment (CPE)

5450 - Environmental Impact Control**5460 - Environmental Data Forecasting****5470 - Asset Control**

- 5471 - Perimeter Fencing
- 5472 - Presence Detection System
- 5473 - Alarm and Monitoring System
- 5474 - Image Filing System

5500 - Support And Supervision Systems**5510 - Telecommunications (Radio, Acoustic, Optical)**

- 5511 - Specialized Telecommunications System
- 5512 - Transmission System



- 5513 - Videoconference System
- 5514 - CCTV System
- 5515 - Radio Communication System
- 5516 - Telephony System
- 5517 - Data System
- 5518 - PAGA System
- 5519 - Television System (former Telesupervision System)
- 551A - Telecommunication Infrastructure
- 551B - Telecommunications Consulting

5520 - Data Control, Supervision, And Acquisition System

- 5521 - Environmental Monitoring System
- 5522 - Fire and Gas Detection System
- 5523 - Central Operation and Supervision Control Station (ECOS)
- 5524 - Subsea Data Acquisition System (SAS and SSAS)
- 5525 - Leak Detection System
- 5526 - Building Automation
- 5527 - Alarms and Sirens
- 5528 - Access Control
- 5529 - Stress Monitoring System for Anchor Chains, Tendons, and Risers
- 552A - Invoicing Metering System
- 552B - Equipment Protection System (Vibration)
- 552C - Infrastructure for automation core network

5330 - Positioning And Tracking System

- 5531 - Dynamic Global Positioning System (DGPS) (Cancelled)
- 5532 - System for Monitoring Stress on Anchor Chains or Tendons (Cancelled, see 5529)
- 5533 - Radiopositioning System
- 5534 - Satellite Positioning System
- 5535 - Acoustic Positioning System
- 5536 - Positioning System with Inertial Sensors
- 5537 - Integrated Positioning System
- 5538 - Dynamic Positioning System

5550 - Hvac Systems

5800 - Pilot Units

- 5801 - Pilot Acid Water Treatment Unit

6000 - Transport, Transfer, and Tankage

6100 - Interconnecting Piping

6110 - Process Interconnection

- 6111 - Interconnection between Activities Areas
- 6112 - Interconnection for Receipt of Raw Materials
- 6113 - Interconnection for Delivery of Products

**6120 - Interconnection Of Utilities**

- 6121 - Steam System
- 6122 - Potable Water System
- 6123 - Cooling Water System
- 6124 - Compressed Air System
- 6125 - Fuel (Oil & Gas) System
- 6126 - Reused Water System

6200 - Pumping, Compression, And Metering Stations**6210 - Crude And Petroleum Product Pumping Stations**

- 6211 - Crude Petroleum Pumping Station
- 6212 - Intermediate Product Pumping Station
- 6213 - Light Product Pumping Station
- 6214 - Dark Product Pumping Station
- 6215 - Slop Pumping Station

6220 - Special Product Pumping Stations

- 6221 - Lubricant Pumping Station
- 6222 - Paraffin Pumping Station

6230 - Miscellaneous Pumping Stations

- 6231 - Alcohol Pumping Station
- 6232 - Water Pumping Station
- 6233 - Sulfuric Acid Pumping Station
- 6234 - Vegetable Oil and Fat Pumping Station

6240 - Compressor Stations**6250 - Metering Stations**

- 6251 - Oil Metering Station
- 6252 - Gas Metering Station

6260 - Pressure Reduction Stations

- 6261 - Flow Control Stations

6270 - Pressure Reduction Station Or City Gate**6280 - Online Mixing System****6290 - Gas Distribution Stations - Edg**

**6300 - Tankage****6310 - Crude And Petroleum Products Tankage**

- 6311 - Crude Petroleum Tankage
- 6312 - Intermediate Product Tankage
- 6313 - Light Product Tankage
- 6314 - Dark Product Tankage
- 6315 - LPG Tankage
- 6316 - LNG (Liquefied Natural Gas) Tankage
- 6319 - Storage of Finished Products

6320 - Lubricants And Paraffin Tankage

- 6321 - Basic Lubricants Tankage
- 6322 - Intermediate Lubricants Tankage
- 6323 - Finished Lubricants Tankage
- 6324 - Additives for Lubricants Tankage
- 6325 - Paraffin Tankage

6330 - Chemicals Tankage

- 6331 - Tetraethyl Lead Tankage
- 6332 - DEA Storage
- 6333 - Sulfuric Acid Tankage

6340 - Petrochemical Products Tankage

- 6341 - Ethylene Tankage
- 6342 - Styrene Tankage
- 6343 - Butadiene Tankage

6350 - Fertilizers Tankage

- 6351 - Ammonia Tankage

6360 - Tankage Of Miscellaneous Products

- 6361 - Ethanol Tankage
- 6362 - Water (Raw, Treated) Tankage
- 6363 - Biofuel Tankage (for ethanol tankage use code 6361)

6400 - Loading And Unloading Stations**6410 - Loading Stations**

- 6411 - Tank Truck Loading Platform
- 6412 - Tank Car Loading Platform
- 6413 - Tank Barge and Tanker Loading System
- 6414 - Water Loading Station

**6420 - Vehicle Weighing Stations****6430 - Filling Station****6440 - Unloading Stations**

- 6441 - Tank Truck Unloading System
- 6442 - Tank Car Unloading System
- 6443 - Tank Barge and Tanker Unloading System

6450 - Condensate Gas Manifold**6460 - Offshore Lng Regasification Unit****6500 - Pipelines****6510 - Oil Pipelines**

- 6511 - Petroleum
- 6512 - Dark Products
- 6513 - Light Products
- 6514 - LPG
- 6515 - LGN

6520 - Gas Pipelines

- 6521 - Natural Gas
- 6522 - Refinery Gas

6530 - Alcohol Pipelines**6540 - Mineral Pipelines****6550 - Ammonia Pipelines****6560 - Water Pipelines****6570 - Pipelines For Various Products**

- 6571 - Slop
- 6572 - Effluents
- 6573 - Sulfuric Acid
- 6574 - Produced Water

6600 - Berthing, Mooring, Hydrographic And Vessel Facilities

**6610 - Berthing**

- 6611 - Piers and Dolphins
- 6612 - Mooring Place for Support Vessels
- 6613 - Fixed Wharf
- 6614 - Floating Wharf

6620 - Mooring

- 6621 - Buoy
- 6622 - Monobuoy
- 6623 - Multi-Buoy Mooring System
- 6624 - Turret (Cancelled, use 1356)

6630 - Hydrographic Structures

- 6631 - Navigation Channel
- 6632 - Evolution Basin
- 6633 - Piers

6640 - Transport Vessel Structures

- 6641 - Main Deck
- 6642 - Second Deck
- 6643 - Bottom
- 6644 - Ballast Tank
- 6645 - Hull
- 6646 - Support Structure

6650 - Navigational Aid Systems

- 6651 - Mooring
- 6652 - Ballasting and Drainage
- 6653 - Navigation and Propulsion
- 6654 - Towing

6700 - Transportation And Handling Of Solids**6710 - Fertilizers**

- 6711 - Urea
- 6712 - Potassium Chloride

6800 - Bulk Material Storage**6810 - Raw Material Storage**

- 6811 - Coal Storage
- 6812 - Crude Shale Storage
- 6813 - Retorted Shale Storage

**6820 - Storage Of Miscellaneous Products**

- 6821 - Coke Storage
- 6822 - Sulfur Storage
- 6823 - Fertilizer Storage
- 6824 - Catalyst Storage
- 6825 - Chemical Product Storage
- 6826 - Urea Storage
- 6827 - Melamine Storage

6830 - Biomass Storage**6840 - Natural Gas Storage****6900 - General Area**

- 6901 - Terminal
- 6902 - Waterway Terminal
- 6903 - Land Terminal

7000 - Special Distribution Systems And Electricity**7100 - General**

- 7101 - Production Area
- 7102 - Raw Material Storage System
- 7103 - Primary Finished Product System
- 7104 - Special Raw Material System
- 7105 - Secondary Finish Product System
- 7106 - Special Products System

7300 - Asphalt

- 7301 - Polymer Asphalt Production System

7400 - Additive And Treatment Systems

- 7401 - Gasoline Additive System
- 7402 - Diesel Oil Additive System
- 7403 - Jet Fuel and Aviation Gasoline Treatment System
- 7404 - Butane System
- 7405 - Urea Covering
- 7406 - Fuel Oil Additive System

7500 - Electric Power Generation Systems

- 7501 - Thermoelectric Central
- 7502 - Hydroelectric Central
- 7503 - Small Hydroelectric Central
- 7504 - Wind Power Plant
- 7505 - Solar-photovoltaic Central
- 7506 - Heliothermic Plant



- 7507 - Waste Energy Recovery Unit
- 7508 - Hybrid Plant

7600 - Electric Power Transmission Systems

- 7601 - Transmission Line
- 7602 - Transmission Substation

7700 - Electric Power Distribution Systems

- 7701 - Distribution Line
- 7702 - Distribution Substation

8000 - Areas, Buildings, And Support And Temporary Facilities

8100 - General Area

8110 - Installation Area

- 8111 - Administrative Area
- 8112 - Industrial Area
- 8113 - Road Building Systems
- 8114 - Pipe Storage Area

8120 - Area Outside The Facility

- 8121 - Parking
- 8122 - External Access Road
- 8123 - Community Center
- 8124 - Access Roads
- 8125 - Landing Strip
- 8126 - Family Relocation Area
- 8130 - Area for Scheduled Shutdowns of Process Units
- 8131 - Forest Nursery
- 8132 - Biological Reserve
- 8133 - Nature Conservation Unit

8200 - Buildings

8210 - Administrative Buildings

- 8211 - Administration
- 8212 - Reception and Public Relations
- 8213 - Training Center
- 8214 - Restaurant
- 8215 - Medical and Hospital Station and Outpatient Unit
- 8216 - Timekeeping Station
- 8217 - Telecommunications Centers, Communication Station
- 8218 - General Services Building
- 8219 - Transportation Service Building

**8220 - Industrial Buildings**

- 8221 - Control Room/Control Center
- 8222 - Laboratory
- 8223 - Industrial Safety
- 8224 - Maintenance Shop
- 8225 - Inspection
- 8226 - Store House
- 8227 - Warehouse, Shed, Store Room
- 8228 - Metallurgical Workshop
- 8229 - Piping Workshop
- 822A - Processing Workshop
- 822B - Assembly Workshop
- 822C - General Office
- 822D - Treatment and Painting Line
- 822E - Plate Patio
- 822F - Painting Booth
- 822G - Geological Sampling Litholibrary
- 822H - Equipment Cleaning Area

8230 - Miscellaneous Buildings

- 8231 - Surveillance
- 8232 - Guard House
- 8233 - Locker Room
- 8234 - Auto Shop
- 8235 - Garage, Vehicle Shelter
- 8236 - Bank
- 8237 - Residences and Housing
- 8238 - Center for Social and Sports Activities, Gymnasium
- 8239 - Commercial Center

8240 - Other Administrative Buildings

- 8241 - Data Processing Center
- 8242 - Information and Documentation Center
- 8243 - Auditorium
- 8244 - Contractors' Building
- 8245 - 3D Visualization Center
- 8246 - Virtual Reality Center
- 8247 - Technological Incubator
- 8248 - Convention Center
- 8249 - Library

8250 - Other Industrial Buildings

- 8251 - Main Substation Building
- 8252 - Auxiliary Substation Building
- 8253 - Generator House
- 8254 - Operators House
- 8255 - Catalyst House
- 8256 - Boiler House
- 8257 - Compressor House
- 8258 - Pump House (Process, Fire Fighting, Transfer pumps)
- 8259 - Metering House (Cabin)
- 825A - Storage Center for Radioactive Sources

**8260 - Other Miscellaneous Buildings**

- 8261 - Scale Building
- 8262 - Filling or Service Station
- 8263 - Checking and Measuring Platforms
- 8264 - Water Intake and Pumping Station Building
- 8265 - Water Treatment Station Building
- 8266 - Industrial Wastewater Treatment Station Building
- 8267 - Passenger and Air Cargo Station
- 8268 - Freight and Passenger Elevators
- 8269 - Health Promotion Center
- 8270 - Solid Waste Storage Central
- 8271 - Buildings and Historic Heritage Areas
- 8272 - Cargo Handling Building and Yard
- 8273 - Basement
- 8274 - Airport
- 8275 - Contingency Complex
- 8276 - Tunnel
- 8277 - Helideck

8300 - Miscellaneous Structures**8310 - Engineering Structures**

- 8311 - Dams, Weirs, and Dikes
- 8312 - Lakes and Canals
- 8313 - Erosion Control and Slope Stability Structures
- 8314 - Bridge

8320 - Environmental Protection Center

- 8321 - Green Belt

8400 - Areas And Installations For Equipment Testing, Personnel Training And Research And Development (R&D) Activities**8410 - Areas And Installations For Equipment Testing**

- 8411 - Wireless Systems and Networks Areas

8420 - Areas And Installations For Personnel Training**8430 - Areas And Installations For Research & Development (R&D) Activities****8440 - Areas And Installations For Qualification Of Personnel And Procedures****8500 - Areas And Installations For Calibration Of Measurement Instruments****8510 - Instruments For Fluid Products**

- 8511 - Flow Measurement

**8520 - Instruments For Gaseous Products**

8521 - Flow Measurement

8600 - Auxiliary Buildings In Industrial Units

8601 - Local Support House
 8602 - Gardening and Industrial Cleaning
 8603 - Truck Inspection
 8604 - Fire Fighting Training
 8605 - Maintenance Stop Dress Rooms
 8606 - Asset Safety Dress Rooms
 8607 - Cold Water Plant
 8608 - Inspection Building

8900 - Temporary Structures And Facilities**8910 - Temporary Sheds**

8911 - Temporary Administrative Shed
 8912 - Temporary Cafeteria
 8913 - Temporary Store Room
 8914 - Temporary Guard House and Surveillance
 8915 - Temporary Lodging
 8916 - Temporary Support Residences

8920 - Temporary Systems

8921 - Temporary Electrical Network
 8922 - Temporary Telephone Network
 8923 - Temporary Water Network
 8924 - Temporary Compressed Air Network
 8925 - Temporary Sewage Network
 8926 - Temporary Fire Fighting Network

8930 - Temporary Facilities

8931 - Temporary Power House
 8932 - Temporary Workshops
 8933 - Temporary Substation
 8934 - Pipe and Material Storage Area

8940 - Temporary Structures

8941 - Temporary Access Roads and Streets

9000 - Prorated Costs And/Or Costs Not Incorporated Into The Job**9100 - Administration And Support****9110 - Site Administration**

9111 - Site Group

**9120 - General Support Costs**

- 9121 - Conservation and Repairs
- 9122 - Contracted Personnel Transportation
- 9123 - Contracted Provision of Meals
- 9124 - Contracted Surveillance
- 9129 - Other Support Expenses

9200 - Support Services**9210 - Support Expenses**

- 9211 - Operational Transportation (Helicopters, Barges, etc)
- 9212 - Port Expenses
- 9213 - Cargo Handling
- 9214 - Transportation of Materials and Equipment
- 9215 - Costs Common to Project Facilities

9300 - Design Engineering**9310 - Studies And Designs (Development, Conceptual Design, Basic Design, Etc)**

- 9311 - Studies, Designs and Technical and Economic Assessments of Offshore Exploratory Prospects
- 9312 - Studies, Designs, and Technical and Economic Assessments of Onshore Exploratory Prospects
- 9313 - Studies, Projects and Technical and Economic Evaluations of Maritime Exploitation Prospects
- 9314 - Studies, Projects and Technical and Economic Evaluations of Land Exploitation Prospects

9900 - Costs Not Incorporated Into The Job**9910 - Pre-Operation****9990 - Recovered Costs**

Annex D - Service Categories**LIST OF CODES**

Contents	Pages
000 - General.....	2
100 - Construction, Architecture and City Planning.....	2
200 - Piping.....	4
300 - Dynamic Equipments (Machines)	6
400 - Heat Transfer	7
500 - Static Equipment	8
600 - Mechanical Equipment.....	9
700 - Power Generation (Or Conversion), Electricity, Electronic and Telecommunications Systems ..	11
800 - Instrumentation and Automation	13
900 - Miscellaneous Services and Costs	15

000 – General**010 – Chemical Products****100 – Construction, Architecture And City Planning****110 – Terrain**

- 111 - Topography
- 112 - Aerophotogrametric Surveys
- 113 - Earthworks (Terrain Preparation, Dirt Movement, Rock Cut), Deforestation,
Dug Up on Rock Tanks
- 114 - Surveys
- 115 - Geotechnical Engineering
- 116 - Foundation Stones
- 117 - Archaeology
- 118 - Hydrology - Pluviomorphology
- 119 - Geophysical Research

120 – Foundations

- 121 - Staking
- 122 - Infrastructure

130 – Non-Metallic Structures

- 131 - Concrete Structures
- 132 - Wooden Structures
- 133 - Fixed Grating
- 134 - Metallic Molds for Concrete Structure
- 135 - Wooden Molds for Concrete Structure
- 136 - Metal Support for Concrete Structure
- 137 - Fiberglass structure
- 138 - Inflatable Structure

140 – Metallic Structures

- 141 - Plates
- 142 - Structural Tubes
- 144 - Steel Bars
- 145 - Anchor Bolts
- 146 - Profiles
- 147 - Fixed Grating
- 148 - Steel Deck
- 149 - Steel Platform
- 14A - Locksmith

150 – General Services In Buildings

- 151 - Masonry
- 152 - Internal Coating
- 153 - External Coating

- 154 - Roofs and Covers
- 155 - Frames and Glass
- 156 - Sills and Thresholds
- 157 - Floors
- 158 - Lining
- 159 - Office Assembly Service
- 15A - Construction Details
- 15B - Aluminum Frame
- 15C - ACM (Composite Aluminum Panel)
- 15D - Glass
- 15E - Sun Screen
- 15F - Wood and aluminum doors
- 15G - Drinking fountain
- 15H - Structural Masonry Systems

160 – Special Services In Buildings

- 161 - Partition Panels
- 162 - Painting
- 163 - Waterproofing
- 164 - Cleaning and Caulker
- 165 - Acoustic Conditioning

170 – General Building Installations

- 171 - Electrical Wiring
- 172 - Hydraulic Installations
- 173 - Sanitary Installations
- 174 - Gas Installations
- 175 - Ventilation, Pressurizing, Air Conditioning and Exhaust Systems
- 176 - Safety and Firefighting Installations
- 177 - Trash Collecting, Incinerating and Compacting Systems
- 178 - Vertical Transport Installations
- 179 - Compressed Air Installations
- 17A - Telecommunications sites (Telecom Room or Telecom Equipment Room, Videoconference room, multimedia room, infrastructure and mounting accessories - Lighting, Air-Conditioning, furniture and others)
- 17B - Pluvial water installations

180 – Urbanization Services

- 181 - Landscaping
- 182 - Draining
- 183 - Street-building – Paving
- 184 - Gardening
- 185 - Slopes and Embankments Restraining Services
- 186 - Ecologic Rearrangement
- 187 - Fences, Walls and Gates
- 188 - Bridges, Viaducts and Roundabouts

190 – Architecture

- 191 - Layout
- 192 - Enlargement and Renovation
- 193 - Demolition

- 194 - Hazard Maps (made by CIPA)
- 195 - Visual Communications
- 196 - Ergonomics
- 197 - Restoration (property listed by IPHAN)

200 – Piping

210 – Hard Pipes (Conduction, Production, Coating, Drilling)

- 211 - Carbon Steel and Carbon-Molybdenum Pipes
- 212 - Cast Iron Pipes
- 213 - Alloy Steel Pipes
- 214 - Stainless Steel Pipes
- 215 - Non-Ferrous Material Pipes
- 216 - Non-Metallic Pipes
- 217 - Carbon Steel Coated Pipes
- 218 - Reinforced Concrete Pipes
- 219 - Special Material Pipes

220 – Valves

- 221 - Gate Valves
- 222 - Globe Valves
- 223 - Check Valves
- 224 - Ball Valves
- 225 - Butterfly Valves
- 226 - Plug Valves
- 227 - Needle Valves
- 229 - Special Valves

230 – Flanges

- 231 - Cast Iron Flanges
- 232 - Carbon Steel Flanges
- 233 - Alloy Steel Flanges
- 234 - Stainless Steel Flanges
- 235 - Non-Ferrous Material Flanges
- 236 - Non-Metallic Flanges
- 239 - Special Material Flanges

240 – Connections

- 241 - Cast or Ductile Iron Connections
- 242 - Carbon Steel Connections
- 243 - Alloy Steel Connections
- 244 - Stainless Steel Connections
- 245 - Non-Ferrous Material Connections
- 246 - Non-Metallic Connections
- 249 - Special Material Connections
- 24A - Tie-in

250 – Accessories

- 251 - Studs/Bolts and Nuts
- 252 - Sealing and Insulating Joints
- 253 - Expansion Joints
- 254 - Traps and Sight Glass
- 255 - Line Filters
- 256 - Line Blanks (8-Figures, paddle blank and Paddle Spacer)
- 257 - Condensed Separators
- 258 - Gas Purifiers
- 259 - Wye (Y-shaped) Fitting
- 25A - Fabricated Tee
- 25B - Pipe Fittings and Lining for Oil Wells
- 25C - Sprinkler Nozzles

260 – Firefighting Materials

- 261 - Hydrant
- 262 - Chambers and Foam Suppliers
- 263 - Water Jet Cannons
- 264 - Hoses
- 265 - Sprinklers
- 266 - Quick Connectors

270 – Ducts And Piping Systems

- 271 - Steam-Heating Systems
- 272 - Service Stations and Entrainment Bases on the Beach
- 273 - Surface Equipment for Reservoir (Dry Christmas Tree, Casing Head and Production Well Head – BOP)
- 274 - Risers
- 275 - Special Works in Ducts (Crossovers, Bypasses and Overhead Passes)
- 276 - Subsurface Equipment (Includes packer plug, tubing junctions, safety valves, interconnection of submarine ducts)
- 277 - Submarine Well Head
- 278 - Buckle Arrestor
- 279 - Bell-Mouth
- 27A - Filtering Skid
- 27B - Heating Skid
- 27C - Pressure-Regulating Skid
- 27D - Measuring and Quality Skid
- 27E - Utility Skid
- 27F - Output Limitation Skid
- 27G - Skid for Process System Modularization

280 – Mechanical Schemes For Wells

- 281 - Mechanical Scheme for Oil Producing Well
- 282 - Mechanical Scheme for Gas Producing Well
- 283 - Mechanical Scheme for Water Injection Well

290 – Miscellaneous

- 291 - Flexible Tubes
- 292 - Hose

- 293 - Rigid Supports, Guides and Anchorages
- 294 - Spring and Counterweight Supports, Dampeners
- 295 - Pipeline Inspector Gauge (PIG) and Ball
- 296 - Pig Launcher and Receiver "Scraper-Trap" and Ball
- 297 - Cups
- 298 - Swivel
- 299 - Damper
- 29A - Magneto Installation
- 29B - Subsea Umbilical
- 29C - Subsea Umbilicals and Flexible Pipes

300 – Dynamic Equipments (Machines)

310 – Pumps

- 311 - Centrifugal Pumps (Radial, Mixed Flow and Axial)
- 312 - Alternative Pumps (Piston, Plunger and Diaphragm)
- 313 - Rotating Pumps (Screw, Pallet, Lobes and Gears)
- 319 - Special Pumps

320 – Compressors, Blowers And Fans

- 321 - Centrifugal Compressors (Axial and Radial)
- 322 - Alternative Compressors (Piston and Diaphragm)
- 323 - Rotating Compressors (Screw, Pallet and Lobes)
- 324 - Blowers
- 325 - Fans and Exhauster
- 326 - Air-Conditioning Units (Self-Contained and Fan Coil)
- 327 - CNG or LNG Compression System
- 329 - Special Compressors
- 32A - Cooling Water Chiller

330 – Mechanical Drives

- 331 - Steam Turbines
- 332 - Gas and Expansion Turbines
- 333 - Internal Combustion Engines
- 334 - Pneumatic and Hydraulic Engines

340 – Mechanical Transmission Elements

- 341 - Reducers and Multipliers
- 342 - Couplings
- 343 - Belts, Chains and Pulleys, Bridles
- 344 - Sucker Rod Pump
- 345 - Snatch Block and Shackle
- 346 - Hydraulic Rotation Variator
- 347 - Wire rope and sling
- 348 - Fiberglass rope

390 – Miscellaneous

- 391 - Ejectors (Ejection/Eduction System/Eduction)
- 392 - Oil System

- 393 - Sealing System
- 394 - Batel Door
- 395 - Hydraulic Rotor Barring System
- 396 - Power Oil System
- 397 - Jacking Oil System
- 398 - Emergency Oil and Lubrication System

400 – Heat Transfer

410 – Steam Generators

- 411 - Aquatubular Boilers
- 412 - Flamotubular Boilers
- 413 - Heat Recovery Boilers

420 – Furnaces

- 421 - Heating, Steaming and Overheating Furnaces
- 422 - Reaction Furnaces
- 423 - Electric Furnaces
- 424 - Inert Gas Generators
- 425 - Reducer Gas Generators

430 – Insulating And Refractory Shielding

- 431 - Thermal Insulating
- 432 - Refractory Shielding
- 433 - Passive Fire Protection

440 – Cooling Towers

450 – Heat Exchangers

- 451 - Tubular Heat Exchangers
- 452 - Double Pipe Hairpin Heat Exchangers
- 453 - Water Vapor Condensers
- 454 - Heating or Cooling Coils
- 455 - Air Coolers
- 456 - Plate Exchangers
- 457 - Air Pre-heaters
- 459 - Special Exchangers (Transference Line, Plate-Fin, Coiled)
- 45A - Sulfur condensers
- 45B - Air cooler for Gas Turbines

470 – Gas Generators

- 471 - Biogas Purification

490 – Miscellaneous

- 491 - De-superheaters
- 492 - Burners
- 493 - Thermal Exchanger Tubes
- 494 - Soot Blowers
- 495 - Combustion Chambers
- 496 - Incinerators
- 497 - Hydrogen System for Supply Station
- 498 - Electrical Heater

500 – Static Equipment**510 – Tanks**

- 511 - Atmospheric Tanks
- 512 - Pressurized Tanks
- 513 - Polished water tanks

520 – Spheres**530 – Storage Cylinders****540 – Pressure Vessels, Oil Treatment, Gas Separators, Gas Depurators, Water Separators**

- 541 - Compressed Air Pressure Vessel
- 542 - Gas Pressure Vessel
- 543 - Water Pressure Vessel
- 544 - Steam Pressure Vessel

550 – Towers

- 551 - Trays and Internal Components
- 552 - Fillings

560 – Special Pressure Vessels

- 561 - Filters
- 562 - Separators, Salt Removers and Coalescers
- 563 - Decanters, Clarifiers, Flocculators and Washers
- 564 - Driers and Absorbers
- 565 - Deaerators
- 566 - Adsorbers

570 – Reactors

- 571 - Reactor Internals
- 572 - Coke Drum

**580 – Miscellaneous Equipment**

- 581 - Retorts (Ovens, Furnaces) and Burners
- 582 - Chimneys
- 583 - Torches
- 584 - Silos
- 585 - Cyclones
- 586 - Silencers
- 587 - Hydrocyclones
- 588 - Sampler Analyzer
- 589 - Eductor/Ejector

590 – Miscellaneous Vac Systems (Ex Miscellaneous Equipment)

- 591 - Ducts and Transition Parts
- 592 - Dampers (eg: Fire Dampers)
- 593 - Air Filters (VAC System)

600 – Mechanical Equipment**610 – Drilling And Production Equipment**

- 611 - Drilling Columns
- 612 - Tools
- 613 - Drills and Reamers
- 614 - Coring Equipment
- 615 - Fishing Tools
- 616 - Formation Testers and Special Tools
- 617 - Grouting Equipment
- 618 - Submarine Well Head and Wet Christmas Tree Tools
- 619 - Wet Christmas Tree (ANM)
- 61A - Subsea Wellhead Consumables
- 61B - Torpedo Guide Base (To Start Drilling)
- 61C - Spare Parts for Subsea Wellhead Systems
- 61D - Wellhead Equipment and Tools

620 – Transporters

- 621 - Belts, Chains, Rolls and Screws Transporters
- 622 - Lifts
- 623 - Monorails and Carousels
- 624 - Vibrating Feeders
- 625 - Porticos and Rolling Bridges
- 626 - Winches, Capstans and Pulleys
- 627 - Fork-lifts and Other Mobile Machines
- 628 - Rack

630 – Loading And Unloading Equipment

- 631 - Cranes
- 632 - Loading Arms and Filling Nozzles
- 633 - Telescopic Ladders
- 634 - Car-Dumpers

640 – Weighing And Proportioning Equipment

- 641 - Weighing Machines
- 642 - Metering for Powdery, Granulated and Liquid Materials
- 643 - Continuous Weighing Equipment on Transporter
- 644 - Checking Scales

650 – Packing Machines

- 651 - Bagging, Baling, Packaging and Enveloping Machines
- 652 - Can, Drum, Bottle and Flask Filling Machines
- 653 - Closing, Stapling, Nailing, Gluing and Wrapping Machines
- 654 - Palletizers and Depalletizers
- 655 - Compacting Machines
- 656 - Marking and Labeling Machines

660 – Separation Equipment

- 661 - Centrifugal Machines, Centrifugal and Rotating Driers
- 662 - Centrifugal Evaporators
- 663 - Filtering Belts and Draining Presses
- 664 - Mechanical Separators (Mobile Grills, Vibrating Sieves, Rolling Bridges, Collecting Rolls and Raking Mechanisms)
- 665 - Rotating Filters and Press-Filters
- 666 - Magnetic Separators
- 667 - Water and Oil Separators, Floaters, Decanters, Clarifiers and Thickeners
- 668 - Biodiscs and Biofilters, Aeration and Activated Sludge Lagoons
- 669 - Tertiary Treatment Equipment

670 - Mixing, Grinding, Dispersing And Aerating Equipment

- 671 - Agitators
- 672 - Solid Mixers
- 673 - Mills, Calendar and Cutters
- 674 - Grinders and Crushers
- 675 - Atomizers and Pulverizers
- 676 - Surface and Bottom Aerators
- 677 - Static Mixers

680 – Material Transforming Equipment

- 681 - Extrusion Equipment
- 682 - Injection and Molding Equipment (Encapsulator and Pelletizers)
- 683 - Granulating Equipment
- 684 - Clustering Equipment (Briquetting and Sintering Machines)
- 685 - Deformation Equipment (Presses)

690 – Miscellaneous

- 691 - Automobiles, Pickups and Trucks
- 692 - Locomotives and Train Wagons
- 693 - Bulldozers
- 694 - Small-Sized Vessels
- 695 - Driving Machines

- 696 - Inspection and Testing Equipment
- 697 - Tension Machines (Tubes)
- 698 - Turret Bearing
- 699 - Cart
- 69A - Floodgate

700 – Power Generation (Or Conversion), Electricity, Electronic And Telecommunications Systems

- 701 - Wind Turbine Generator
- 702 - Fuel Cell
- 703 - Photovoltaic Cell
- 704 - Microturbine
- 705 - Solar Power (Photovoltaic) System
- 706 - Thermoelectric Generator (TEG)
- 707 - Electrolysis System

710 – Electrical Equipment

- 711 - Generators
- 712 - Electric Motor
- 713 - Transformers and Reactors (Former Transformers, Reactors, Grounding Resistor)
- 714 - Batteries (Former Batteries and Battery Chargers)
- 715 - Electrical Converters (Cancelled – use 772)
- 716 - Interrupting or Disconnect Switches for High Voltage Substations
- 717 - Circuit Breakers for High Voltage Substations
- 718 - Relays and Contactors
- 719 - Stand Insulators for High Voltage Substations
- 71A - Lightning Arresters for High Voltage Substations
- 71B - Grounding Switches for High Voltage Substations
- 71C - Bus Bars for High Voltage Substations
- 71D - Gas Insulated Substations in SF6 – GIS
- 71E - High Voltage Capacitor Bank
- 71F - Electrical Connectors for High Voltage Substations
- 71G - Electrical Measurement Instruments (Frequency meter, Voltmeter, Ammeter and Energy Meters Generated/Consumed)

720 – Electrical Wiring

- 721 - Wires, Cables and Joints
- 722 - Hard Conduits (Metallic) and Accessories
- 723 - Hard Conduits (Plastic) and Accessories
- 724 - Hard Conduits (Fiber Cement) and Accessories
- 725 - Flexible Conduits and Accessories
- 726 - Bus Bars Ducts
- 727 - Cable Trays and Accessories
- 728 - Terminal Block Box
- 729 - OPGW Cables (Optical Ground Wire Cable) and Accessories
- 72A - Perforated Cable Trays

730 – Electrical Network Materials

- 731 - Weatherproof, Gas-proof and Vapor-proof Materials (Conduit, Boxes, Pushbutton)
- 732 - Explosion Proof Materials (Conduit, Boxes, Pushbutton)
- 733 - Overhead Electrical Distribution Network Materials
- 734 - Underground Electrical Distribution Network Accessories (Clamps, Holding Down Straps, Supports, Insulators)
- 735 - Junction Boxes
- 736 - Capacitors
- 737 - Grounding Network Materials (Lightning Arresters, Grounding Resistors, Grounding Rods, Copper Bars, Connectors)
- 738 - Lighting Fixtures and Components
- 739 - High Voltage Fitting

740 – Control Panels

- 741 - Electrical Panels (Switgears) and Motor Control Centers (MCC)
- 742 - Lighting Panels
- 743 - Control and Protection Panels
- 744 - Direct Current Panels
- 745 - Measuring Panels
- 746 - Alternating Current Panels

750 – Cathodic Protection System

- 751 - Anodes
- 752 - Rectifiers
- 753 - Measuring and Interconnection Boxes
- 754 - Current Draining Equipment

760 – Telecommunications Systems

- 761 - Telephony System (Telephonic Switching, PABX, Softswitch, Voice Gateway, explosion proof telephones, accessories, etc.)
- 762 - Transmission (Radio Link and Radio Coverage, Optical Fiber and Optical Systems, Satellite link, transmission circuit, Coaxial Cables, transmission infrastructure – Telecom Tower, Antennas, waveguides, interface converters, etc.)
- 763 - Radio Communication (Trunking Radio, conventional radio communication, radio call, radio-telex, non-directional beacon, infrastructure and accessories for radio communication – portable radios, etc.)
- 764 - Passive Network Elements (structured cabling, Ducts, Cable trays, cabinets, patch-panels, DIO, DID and Accessories)
- 765 - Sound System (cancelled and replaced by 767)
- 766 - Video Systems (CATV Equipment and service, Comercial and Corporative TV, pay-TV, videoconference, telepresence, infrastructure and accessories - Cameras, Monitors, TV sets, screens, microphones and Other Equipment)
- 767 - Sound System and Acoustic Communications (Industrial intercommunication equipment, soundspeakers, cables, emergency signal light, etc.)
- 768 - Data Networks LAN, WAN and WLAN (Routers, Switches, Firewalls, IPS, WAN Accelerators, Access Points, Interface converters, modems, and data network accessories)

- 769 - Electrical Protection Systems for Telecommunications (Grounding, Protection System Against Atmospheric Discharges, FCC, Inverter, UPS, No-Break, Rectifier, Batteries; infrastructure and electrical accessories - Distributor, Electrical Panel and others)
- 76A - Operational and Patrimonial Monitoring (Equipment and Services for CCTV, Telesupervision, infrastructure, Monitoring Accessories-screens, monitors, cameras, alarms, sensors and others)
- 76B - Specialized Equipment (Support, Emergency or Control)
- 76C - Specialized Video System (3D visualization or Collaborative and others)
- 76D - Specialized Voice and/or Audio system (Voice recorder and others)
- 76E - Specialized Data system
- 76F - Specialized Positioning System (Navigation Aid, Georeference and others)
- 76G - Synchronization
- 76H - Telecom Traffic Engineering (Network Capacity - Analysis, Planning and Control)
- 76J - Radiofrequencies management (Public Consultation and Radio Spectrum Engineering Studies)
- 76K - Optical Fiber for substation

770 – Electronics

- 771 - Electronic Power System
- 772 - Electrical Converters and Frequency Inverters (VFD)
- 773 - Battery Chargers (rectifiers) and UPS
- 774 - Optical-Electrical Converter
- 775 - Excitation Control System

780 – Structure Protection

- 781 - Lightning Protection System
- 782 - Grounding

790 – Miscellaneous

- 791 - GIS – Geographical Information System
- 792 - Servers and Workstations
- 793 - Desktops, Laptops, PDAs and Similar Equipment
- 794 - Peripherals and Accessories
- 795 - Other Pieces of Hardware
- 796 - Softwares
- 797 - Electrical Automation System
- 798 - Instrument Transformers Accessories (Voltage Transformer VT and Current Transformer CT)

800 – Instrumentation And Automation**810 - Process Instrumentation (Sensors, Indicators, Transmitters And Switches)**

- 811 - Temperature
- 812 - Pressure and Differential Pressure
- 813 - Flow
- 814 - Level
- 815 - Position

820 – RECEIVER INSTRUMENTATION (INSTRUMENTS AND/OR SYSTEMS)

- 821 - Pneumatic (Regulator, Filters and Other Equipment)
- 822 - Mechanical and Hydraulic
- 823 - Electronic
- 824 - Digital
- 825 - Electric (Solenoid Valves, Relays, Power Supplies and Other Equipment)

830 – Final Control And Operation Devices

- 831 - Control Valves
- 832 - Self-Operated Valves
- 833 - Motor Operated Block Valves
- 834 - Actuators
- 835 - Emergency Valves
- 836 - Directional Valves (Pneumatic, Hydraulic)

840 – Alarm, Safety And Interlocking

- 841 - Safety and Relief Valves
- 842 - Bursting Discs
- 843 - Tank Breathers (Pressure and Vacuum)
- 844 - Sensor Elements
- 845 - Alarm Annunciator
- 846 - Programmable Logic Controller (PLC)
- 847 - Cause and Effect Matrix
- 848 - Interlocking and Protection Devices (Equipment)
- 849 - Interlocking Panel

850 – Special Systems

- 851 - Physical Properties Gauges (Viscosity, Density, Conductivity, Atmospheric Emissions)
- 852 - Chemical Properties Gauges (Analyzers, Chromatographs, pH)
- 853 - Automatic Tank Gauging System
- 854 - Machine Monitoring Devices and Systems
- 855 - Fire and Gas Detection System
- 856 - Instrument Calibration Systems
- 857 - Leakage Detection Systems
- 858 - Management/Building Intelligence System
- 859 - Corrosion Analyzers
- 85A - Chemical Dosing Plants Measurement and Control System

860 – Supervision Systems

- 861 - SDCD/SCADA System
- 862 - PLC
- 863 - Supervisory Stations ECOS/VIDEO WALL
- 864 - A/D Converters
- 865 - Pipeline Leakage Detection System
- 866 - Supervisory Network
- 867 - PLC Network
- 868 - Laboratory Information Management System – LIMS
- 869 - Industrial Network Architecture

870 – Interface Panels

- 871 - Marshalling Panel
- 872 - Control and Interface Loop
- 873 - Interface
- 874 - Sectioning and Maneuver Panel

880 – Miscellaneous

- 881 - Transmitter Programmer
- 883 - Human-machine Interface (HMI)
- 884 - Piping and Tubing Accessories for Instrumentation
- 885 - Electrical Accessories for Instrumentation
- 886 - Control Cables and Thermocouple Extension Cables
- 887 - Support Structures, Trays and Accessories for Instrumentation
- 888 - Control Panels, Cabinets, and Racks
- 889 - Switches, Hubs, Routers, Converters, Firewall, Bridge
- 88A - Junction Boxes (JB)
- 88B - Instrumentation Power Supply Panels

900 – Miscellaneous Services And Costs

- 901 - Reliability Analysis and Study
- 902 - Duct Rehabilitation
- 903 - Technical Exchange between Companies
- 904 - Maintenance Services
- 905 - Assets Safety – Land Studies
- 906 - Assets Safety – Maritime Studies
- 907 - Assets Safety – Airport Studies
- 908 - Projects Approved by Government Agencies
- 909 - Pipeline Repair
- 90A - Studies and Analysis of Events or Processes
- 90B - Real Estate Regularization Services
- 90C - Real Estate Disposal Service
- 90D - Real Estate Incorporation Services
- 90E - Real Estate Control Services

910 – Organization, Management And Support

- 911 - Planning and Control
- 912 - Organization and Management
- 913 - Services and Support
- 914 - Material Management
- 915 - Technical Supervision and Assistance
- 916 - Audit
- 917 - Forum Assembly and Play Creation, Production and Assembly Services
- 918 - Communications
- 919 - Training
- 91A - Documentation
- 91B - Asset Acquisition
- 91C - Service Contracting
- 91D - Material and Equipment Supply
- 91E - Local contents planning and execution
- 91F - Local contents control and follow-up
- 91G - Corporate Policy and Guidelines
- 91H - Development of Goods and Services Suppliers

- 91J - Demand for Goods and Services
- 91K - Law documentation

920 – Assessments And Examinations

- 921 - Assessments for Expropriation
- 922 - Assessments for Purchase or Alienation
- 923 - Assessments for Tenancy
- 924 - Examinations and Assessments in Legal Actions
- 925 - Assessments for Credit Coverage
- 926 - Examinations and Assessments in Casualties
- 927 - Physical Record
- 928 - Assessment for Association
- 929 - Fixed Asset Valuations

930 – Hydrographic And Meteoceanographic Services

- 931 - Environmental Data Studies and Surveys
- 932 - Hydrographic Surveys (Bathymetric, Seismic, Side Scan – Sonar)
- 933 - Marking
- 934 - Dredging
- 935 - Rock Removal
- 936 - Soil Study (Resistivity)
- 937 - Geodetic Surveys
- 938 - Special Geodesy Services
- 939 - Operational Meteo-oceanography
- 93A - Meteo-oceanographic Monitoring and Forecasting

940 – Project Engineering

- 941 - General Preliminary Studies – Basic Data for Projects
- 942 - Master Plans, Location and Arrangement Plans, Key Plans for Area Classification, Directive Plans for Submarine Pipes

NOTE For Key Plants for Classification of Areas use code 94A.

- 943 - Block Diagrams and Process Flow Diagram
- 944 - Piping and Instrumentation Diagram
- 945 - Underground Installations Plans
- 946 - Electrical Diagrams (Electrical, Single Fiber Schemes, Block Diagram, Logical Diagrams)
- 947 - Industrial Safety
- 948 - Land Ducts Installations – Plan and Profile Project
- 949 - Isometric (Non-Related to Code 200 – Piping)
- 94A - Area Classification Plans, Area Classification Data Lists, Area Classification Plans and other Area Classification documents.
- 94B - Project Plans (VIP – Value Improving Practice – Usage Plan, Operation Plan, Maintenance and Inspection Plan, Project Scope Plan, Acquisitions Plan etc.)
- 94C - Studies and Surveys for Optimization of Production and Refining Processes
- 94D - Study of New Technologies
- 94E - Onshore Pipeline Directive Plan

- 94F - Electrical Studies (Short Circuit Current Calculations, Selectivity Study, Battery and Charger Calculation Memory, Calculation of Grounding Resistor, Electromagnetic Field Study, Stability, Power Flow, Electrical Protection other Studies of Electrical Characteristic)
- 94G - Calculations of Efforts in Structures and Other Studies of Mechanical Characteristics (Effort Calculations, Efforts on Frames)
- 94H - Energy Efficiency Studies and Assessments
- 94J - Ergonomic Assessment Report
- 94K - Sketch (sketch for future issuance or revision of a project document)
- 94L - Thermoelectric Transient Studies
- 94M - Reservoir Study
- 94N - Deactivation/Decommissioning of Process Unit (former Process Plant Deactivation)
- 94P - Project Automation and Digital Engineering

950 – Construction And Assembly Services

- 951 - Construction
- 952 - Industrial Assembly
- 953 - Equipment Assembly
- 954 - Duct Construction and Assembly
- 955 - Welding
- 956 - Painting
- 957 - Work Delivery Term
- 958 - Adaptations in Existing Ducts
- 959 - Geometrical Project
- 95A - FRP Piping (Fiberglass reinforced plastic)
- 95B - PRFV Pultruded Profiles (Fiberglass Reinforced Plastic)

960 – Naval Analyses, Procedures And Projects

- 961 - Staking (for Mooring and Fixing Structures)
- 962 - Moorage, Dockage and Anchorage
- 963 - Loading of Maritime Structures in General (Jackets, Modules, Helipads, Decks, Stakes and Others)
- 964 - Shackling, Transportation and Towing of Maritime Structures in General (Modules, Jackets, Helipad, Decks and Stakes) and Others
- 965 - Launching of Maritime Structures in General (Jackets and Module, Jacket, Helideck and Deck Installation, including hookup interconnection, verticalization, Settings and Dry Dock Operation)
- 966 - Launching of Submarine Duct, Side Deflection
- 967 - Auxiliary Installation Devices Project
- 968 - Pull in/Pull out of flexible ducts
- 969 - Analysis, procedures and naval design

970 – Commissioning, Inspections And Tests

- 971 - Assembly Inspection
- 972 - Manufacturing Inspection
- 973 - Inspection (Receipt, Tests, Operation and Maintenance)
- 974 - Tests (Factory, Certification, Functional and Performance)
- 975 - Technical Services – Corrosion
- 976 - Technical Services – Materials
- 977 - Technical Services – Corrosion Monitoring
- 978 - Storage, Preservation and Conditioning

- 979 - Pre-operation & Assisted Start and Operation
- 97A - Painting Plan
- 97B - Welding Plan
- 97C - Quality Plan
- 97D - Preservation Plan
- 97E - Decommissioning

980 – Health, Safety And Environment

- 981 - Land-farming and Landfill for Hazardous Wastes
- 982 - Landfill for Inert Wastes
- 983 - Risk Analysis
- 984 - Making Natural Gas Odorous
- 985 - Environmental Plan of Construction
- 986 - Environmental Impact Study
- 987 - Water Treatment System
- 988 - Basic Environmental Plan
- 989 - Environmental Control Plan
- 98A - HSE Analysis in General
- 98B - EAR (Risk Analysis Report)
- 98C - Environmental Impact Study/Environmental Impact Report - EIA/RIMA
- 98D - Social and Environmental Assessment
- 98E - Environmental Evaluation
- 98F - HSE Procedure
- 98G - Process Risk Study (SERP System)
- 98H - Process Risk Activities (SERP System)
- 98J - Confined Spaces Register (NR-33)
- 98K - Energy Lock
- 98L - Land Motor Vehicles
- 98M - Forest Replacement Project/Forest Inventory
- 98N - Water Availability Assessment
- 98P - Preliminary Environmental Assessment
- 98R - Preliminary Risk Assessment
- 98S - Water Support Capacity Assessment
- 98T - Atmospheric Support Capacity Assessment
- 98U - Management Plan
- 98V - Preliminary Risk Analysis (APR)
- 98W - Operational Safety Document (DSO)
- 98X - Hazard and Operability Study (HAZOP or HAZOP+LOPA)
- 98Y - Degraded Areas
- 98Z - Civil Construction Waste

990 – Other Costs

- 991 - Job Site
- 992 - Preliminary and Preparation Services
- 993 - Services in Provisional Installations
- 994 - Technical and Economic Analysis
- 995 - Atmospheric Monitoring – Prevention of Electric Discharges
- 996 - Environmental Monitoring
- 997 - Acquisition of Satellite Images
- 998 - Regained Costs
- 999 - Apportioned Costs