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CONTENT: Plant and equipment item rate codes are listed and defined in this instruction. The text includes:

- 1. Use of Plant and Equipment Item Rate Codes
- 2. Numeric List Plant and Equipment Item Rate Codes and Titles
- 3. Plant and Equipment Item Rate Codes Definitions

1. <u>USE OF PLANT AND EQUIPMENT ITEM RATE CODES:</u>

Plant and equipment item rate codes are used by the Projects & Fixed Assets Accounting Division (PFAAD) when entering capital asset details into the Company's fixed assets records. Plant and equipment item rate codes segregate and identify asset groups according to service lives for depreciation purposes. Service lives of asset groups are contained in the following GIs:

1.1 CRUDE PROGRAM ASSETS

GI 202.330- 5 Capital Assets Capitalized After October 31, 2002 – Service Lives And Depreciation

1.2 MOTOR, MARINE AIRCRAFT AND CONSTRUCTION EQUIPMENT

GI 202.330-20 Capital Assets - Motor/Marine/Aircraft/Construction Equipment Table of Service Lives

1.3 DRILLING EQUIPMENT

GI 202.331 Drilling Equipment - Service Lives and Depreciation

2. NUMERIC LIST - PLANT AND EQUIPMENT ITEM RATE CODES AND TITLES:

Plant and equipment item rate codes listed below (SAP transactions AS01/AS02/AS03) with the exception of those described as "specialized item rate codes" are standard codes. Specialized item rate codes generally relate to intangible assets, used equipment, and a special category of gas program assets that are established by PFAAD as needed.

Plant &		Plant &	
Equipment		Equipment	
Item Rate		Item Rate	
<u>Code</u>	<u>Title</u>	<u>Code</u>	<u>Title</u>
0000	Temporary Equipment Units	0034	Iron Packages
0001	Lands (General)	0035	Agitators and Mixers
0004	Intangible Const. O/H Prorate	0036	Filter Presses, Filters
	Under/Over Clearance	0037	Oil/Sanitary Sewers
0005	Intangible Properties	0038	Fire Protection Pipelines
0007	Intangible Development Cost Wells	0039 0040	Pipelines and Process Lines Utility Pipelines

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0008	Intangible Development Cost	0042	Pipeline Support	c & Tronchoc	
0008	Offshore Platforms	0042	Furnaces, Boiler		
0009	Intangible Development Cost Un-detailed	0044	Fractionators an		vers
0010	NKSC Camp Assets-L-5 Years	0045	Heat Exchanger	s, Condensers	5,
0012	Used Construction Camp Assets	0040	Flandina.		
0014	 42 Months Roads, Walks and Pavements 	0049 0051	Flow lines Electric Precipita	torc	
0014	Fencing	0052	Dryers, Kilns, ar		
0016	Bridges, Trestles and Culverts	0053	Water Wells		
0017	Retaining Walls and Fire Walls	0054	Cooling Towers		
	j	0055	Compressors, Blow Exhausters	vers, and	
0019 0020	Railroad Trackage and Spurs Mechanical PABX Switch	0056	Engines and Tur	bines	
0020	Electric Distribution Lines &				
0022	Equipment Communications Equipment				
	• •	0057	Pumps		
		0058	Elect. Motors an		
		0059	Plant Instrumen	ts & Control	
0023	Electric Lighting & Power Equipment	0060	Equip. Pulverizing and Equipment	Screening	
0024	Wellhead Equipment Permanent	0061	Gas and Elect. A	nnliances	
0025	Buildings, Permanent	0062	Laboratory & Te	• •	
0026	Bins	0063	Stationary Hoist		nd
0027	Racks and Platforms		Cranes	,	
0028	Wharves and Piers	0064	Well Pipe and Ca	asing (516X)	
0030	Atmospheric Separators, Settling Basins, and Sumps	0065	Forges and Heat		es
0031	Tanks	0066	Weighing & Pack	kaging Equipn	nent
0033	Drums, Vessels and Misc. Containers	0067	Conveyors and I	Elevators	
0068	General Equipment	0081	Computer & EDI	P Equipment	
0069	Sundry Small Tools	-	Purchased up to to old assets)		efer
0070	Perishable Equipment	0082	Computer & EDI	P Fauinment	
0071	Superstructures, Stairways, and Elevated Walks	0002	Purchased after		
0072	Portable and Temporary Buildings	0085	Cathodic Protect	tion	
0073	Stratigraphic Drilling Equipment	0086- 0097	Drilling Equipme 202.331)	ent (See GI	
			,		

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0074 0076 0077 0078	Portable Maintenance Equip. Recreational Facilities Furniture & Fixtures Drafting, Surveying and Photographic Equipment	01xx-09xx	including motor, and construction GI 202.330-20)	, marine, airc n equipment (
0079	Office Machines & Appliances	1112	Leased Asset – Depreciation	12 Years	
0800	Unclassified	1115	Leased Asset – Depreciation	15 Years	

1120

1125

Leased Asset - 20 Years

Leased Asset - 25 Years

Depreciation

Depreciation

3. PLANT AND EQUIPMENT ITEM RATE CODES - DEFINITIONS:

3.1 <u>TEMPORARY EQUIPMENT UNITS-0000</u>

Special item rate for equipment units capitalized but not to be depreciated because they are acquired for future company requirements rather than current operations.

3.2 LANDS (GENERAL)-0001

Land on which the former Samarec facilities are situated.

3.3 INTANGIBLE CONSTRUCTION OVERHEAD PROPRATE UNDER/OVER CLEARANCE-0004

Special item rate for the intangible asset in reclassifying the year end balance of account 2045006, 'Construction Over/Under Clearance (refer to AI 212)

3.4 INTANGIBLE PROPERTIES-0005

This represents the acquisition cost of obtaining drilling sites (see GI 216.608)

3.5 <u>INTANGIBLE DEVELOPMENT COST WELLS-0007</u>

These are indirect expenses such as labor and administrative costs and indirect materials related to the development of all on-shore and off-shore wells, except injection wells (Type Prefix 62) where all costs are tangible.

3.6 <u>INTANGIBLE DEVELOPMENT COST OFFSHORE WELL PLATFORMS-0008</u>

Indirect material costs associated with the construction of offshore well platforms. This Item Rate is not in use although asset records still exist that refer to well Platforms capitalized under the old procedure.

3.7 INTANGIBLE DEVELOPMENT COST UNDETAILED-0009

These are grouped costs which when detailed will be transferred to Item Codes 0005/7/8/9 as appropriate.

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3.8 NKSC CAMP ASSETS/L/5 Years-0010

Special item for specially acquired construction camp assets with a service life of 5 years.

3.9 USED CONSTRUCTION CAMP ASSETS/42 Months-0012

Special item rate for specially acquired construction camp assets with a service life of 42 months.

3.10 ROADS, WALKS, AND PAVEMENTS-0014

Paved roads, streets, airstrips, driveways, and industrial areas. Walks, sidewalks, walkways, asphalt or concrete pavements/parking lot, concrete slabs, and patios.

Includes: Related gutters, curbing, stairways, ditches, striping, signs, and guard rails.

Walks and stairways over firewalls, pipelines, and trenches.

Excludes: Bridges, trestles, and culverts (0016); curbs along roadways acting as

firewalls (0017); elevated walks connecting tanks, buildings, or other

equipment (0071); temporary roads and walks (expense).

3.11 <u>FENCING-0015</u>

All permanent fences and gates.

Includes: Posts, gate securing devices, ground anchors, steel pipe barricades, and

quard rails.

Excludes: Temporary fencing such as sand control fencing (expense).

3.12 BRIDGES TRESTLES AND CULVERTS-0016

All bridges, trestles, and culverts other than for pipelines.

Excludes: Wharves and piers (0028); pipeline supports and trenches (0042);

stairways, fixed ladders, and elevated walks (0071).

3.13 RETAINING WALLS AND FIRE WALLS-0017

Retaining and fire walls of a permanent nature.

3.14 RAILROAD TRACKAGE AND SPURS-0019

Tracks and railway switching and signaling equipment.

Includes: Frogs, dead end bumpers, crossing signs, and safety devices.

Excludes: Track mobiles (0068).

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3.15 MECHANICAL PABX SWITCH-0020

This is a special item rate code to distinguish mechanical PABX switches which have a shorter service life from other types of telephone equipment.

Excludes: Other types of communication equipment (0022).

3.16 ELECTRIC DISTRIBUTION LINES AND EQUIPMENT-0021

Overhead and underground lines and related hardware and equipment for primary electric power generation, transmission, and distribution.

Includes:

Wooden poles complete with cross arms and hardware, steel towers complete with hardware and fittings, insulators, conduit, bus structures, switchgear, transformers, and motor control centers (MCCs) located in substations, lightning arrestors, manholes for underground circuits, grounding wells, service drops of leads up to point where they are attached to the facility or plot area secondary system served; street and perimeter fence lighting system including light standards, switches, transformers, master equipment, and Saudi Electricity Company connection fees.

Excludes:

Overhead/underground lines and electrical equipment which are part of a secondary system such as within a ball park or bulk plant (0023); switchgear, transformers, and motor control centers (MCCs) not located in substations (0023); motor starters and wiring to electric motors (0058).

3.17 COMMUNICATION EQUIPMENT-0022

Radio, television, telephone, teletype, telemetering, signal, and fire alarm systems, both overhead and underground. Where any of these facilities are mounted on power poles, the poles are charged to item 0021.

Includes:

Radio - Low and high frequency radio equipment; VHF radio and mobile base stations; antenna towers; broadband VHF and UHF radio; remote control units, audio and sound recording equipment.

Television - Station, projection, and link equipment, transmitters; TV film recorders and Company-owned TV receivers.

Telephone - Switchboards; telephone centers and exchanges; head, wall and desk telephones; private automatic exchanges; microwave equipment; fax machines; speech scramblers; secretarial answering units; voice carrier systems and associated equipment.

Teletype - Teletype exchange and switching equipment; terminal equipment; teleprinters and accessories; coding machines; radio-teletype circuits and outdoor distribution system.

Other - Intercom and annunciator systems; public address systems; fire alert and announcer system.

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Excludes: Mechanical PABX switches (0020); electronic test equipment (0062); theater sound systems (0076); portable television sets (0061).

3.18 <u>ELECTRIC LIGHTING AND POWER EQUIPMENT-0023</u>

Secondary system serving a particular facility or plot area. Power circuits and lighting serving equipment units on plant plot area.

Includes: All overhead and underground fixtures, poles, cross arms, and hardware; insulators, conduit, junction boxes, panels, circuit breakers, regulators, relays, rectifiers, switchgear, transformers, bus duct, solar power unit/system and motor control centers (MCCs) not located in substations, motor starter, and cables up to the equipment units served and aggregate value of these items located within the plant plot area where individual cost is less than the minimum amount of capitalization (power circuit and lighting on plot).

Excludes: Transformers, switchgear, and motor control centers (MCCs) located in substations (0021); electrical wiring and fixtures in building interiors (0025) (0072); wiring between cables and equipment units and Saudi Electricity Company connection fees (0021).

3.19 WELLHEAD EQUIPMENT-0024

All equipment on the wellhead including the Xmas tree, connections to flowlines, and wellhead manifold.

Includes: Landing base, casing head, control gates, tubing catcher, packing head, stuffing box, control heads, and related items. Also includes pressure maintenance, water/gas injection wellhead equipment.

Excludes: Well platforms (0027); water/gas injection lines (0039); flow lines (0049); flow line automatic control valves (0059); and well pipe (0064).

3.20 PERMANENT BUILDINGS-0025

All types of permanent buildings, including residential dwellings, offices, hospitals, schools, maintenance shops, storehouses, pump house shelters, and cold storage units.

Includes: All integral features of the building such as plumbing and fixtures, electrical wiring and fixtures, flues and duct work for heating and cooling, ventilating system, wall and ceiling fans, sprinkler system, fire escape system, painting and insulation, built-in fire alarm system, built-in shelving, cabinets and bins, and attached platforms.

Excludes: Mobile houses - 'Portakamp' type (0072); electrical and other utility laterals to the building (0021, 0040); gas and electrical appliances (0061); blower and air handling (HVAC) type AC units (0068); perishable equipment (0070); furniture and fixtures (0077); self-contained AC units (0061); and electric elevators (067).

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3.21 BINS-0026

Storage bins, hoppers and receptacles for sand, cement, or rock; silos; storage tanks for clay and other materials.

Includes: Structures supporting bins and ladders, stairways, and platforms attached

thereto.

Excludes: Bins built into buildings or that form a part of a building (0025); racks and

platforms (0027); steel bins or steel shelving for parts storage (0068); bins on wheels (0070); wooden bins and shelving not built in or attached to buildings

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(0070).

3.22 RACKS AND PLATFORMS-0027

Platforms used for offshore oil and gas wells including related landing stage, ladders, warning buoys, and navigation lights. Storage racks and load handling platforms for products or materials including related risers, loading spouts, swing walks, stairs, ladders, and ramps; conductor offshore well - FSC/Caisson.

Excludes: Platforms which are a part of a building (0025, 0072); storage bins (0026);

wharves and piers and equipment mounted thereon (0028); risers (0039, 0049); dining hall and medical equipment racks (0068); portable barrel

platforms (0070).

3.23 WHARVES AND PIERS-0028

Structures built out into the water for use as craft landing places and for receiving/discharging cargo and passengers.

Includes: Mooring facilities, pile clusters, bulkheads, decking, rip rap, earth fills,

approach trestles, sustaining walls, stairs, and ladders. Also includes warning buoys, channel markers, marine lanterns, navigational beacons, and other

offshore aids to mariners.

Excludes: Offshore oil and gas well platforms (0027); pipelines (0037, 0038, 0039, 0040,

0042); tide gauges (0059); stationary hoisting equipment (0063); warning buoys, markers, and marine lanterns serving offshore oil gathering lines and

platforms (0039, 0027).

3.24 ATMOSPHERIC SEPARATORS, SETTLING BASINS AND SUMPS-0030

Concrete, steel, wood, or other types of atmospheric separators; settling basins; earthen or concrete lined canals and ditches; sewage comminutors and clarifier; salt storage and sewage dissolving pits; caustic dissolving sewage pits; earth reservoirs in oil sewage, sanitation, and like service.

Includes: Sumps, septic tanks, foam mixing boxes, catch basins and burn-off pits. Also

includes related baffles, weirs and gates.

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Excludes: Hot wells, acid and caustic settlers (0033); steel oil processing separators (0033); connecting sewer lines (0037); trash burners (0052).

3.25 <u>TANKS-0031</u>

All storage tanks, spheres and spheroids made of steel or alloy plates used for storage, feed, blending, treating, compounding, or shipping of crude oil, refined products, liquefied petroleum gas, natural gas, water, or chemicals.

Includes: Floating roof tanks, cone roof tanks, open top tanks and elevated tanks. Also includes regular tank appurtenances such as hatch covers, vents, safety valves,

tank water drain off lines, stairs, ladders, railings and sprinkler system for fire protection.

Excludes: Fencing (0015); firewalls (0017); all drums and vessels (0033); tank mixers

(0035); fire protection pipelines (0038); vapor recovery piping (0039); cooling or heating coils (0045); automatic level indicators and control instrumentation

(0059).

3.26 DRUMS, VESSELS, AND MISC. CONTAINERS-0033

Steel and alloy drums and unfired pressure vessels with simple internals or baffles.

Includes: Drip, knock-out, settling, slop, skim and surge drums; gas-oil water and sand

separator traps; scraper traps; reflex accumulators; gas and air receivers; salt water and cooling water strainers; zeolite water treaters; catalyst hoppers; dye

pots and hot wells.

Excludes: Fractionating columns (0044); gauges and other instrumentation (0059); and

superstructures (0071).

3.27 IRON PACKAGES-0034

Steel cylinders (portable pressure vessels) for shipping compressed gases such as acetylene, butane, propane, chlorine, carbon dioxide, oxygen and nitrogen. The investment in each type of container will be recorded separately.

Excludes: Metal drums and barrels used for shipping petroleum products (Merchandise

Stock, Empty Packages), portable fire extinguishers (0068).

3.28 AGITATORS AND MIXERS-0035

Acid, caustic, chemical and product mixers and agitators including motor driven tank mixers and jet, air, and eductor mixers.

Includes: Mixing paddles, spiders, driving gears, sprockets, countershafts, and pulleys.

Excludes: Cooling and heating coils (0045); motors not an integral part of mixer (0058);

food mixers (0068); concrete, mortar and plaster mixers (0074).

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3.29 FILTER PRESSES AND FILTERS-0036

Gravity pressure and continuous filters for lube oil, clay and clay treating of gasoline, dewaxing, and other product fluid filters. Filter cloth replacements should be expensed.

Excludes: Cooling water strainers (0033); process line strainers (0039); utility line

strainers (0040); oil filters and purifiers on mechanical equipment

(0055/56/57/74 and others).

3.30 <u>OIL SEWERS AND SANITARY SEWERS-0037</u>

Main and branch oil and sanitary sewer lines.

Includes: Drains and traps; manholes; excavations; and off plot lateral lines up to facility

or plot area served.

Excludes: Separators and settling basins (0030); sewage canals and ditches (0030); tank

water draw-off lines (0031).

3.31 FIRE PROTECTION PIPELINES AND SPRINKLER SYSTEM-0038

Primary pipelines and sprinkler system used in fire protection service such as CO2, steam, water and foam. Each type of piping will be recorded separately in the asset records.

Includes: Manually operated valves and fittings, hydrants, manifolds, manholes, valve

boxes, off-plot lateral lines up to a facility or plot area served and sprinkler

system for fire protection in process plant unit and other facilities.

Excludes: Sprinkler systems for storage tanks (0031) and buildings (0025, 0072); utility

pipelines (0040); pipeline supports and trenches (0042); cathodic protection

(0085), secondary fire protection lines within process plant plot area (0039).

3.32 PIPELINES AND PROCESS LINES-0039

Pipelines and process lines for oil, gas, water well supply, water/gas injection wells, salt water disposal wells and refined petroleum products.

Includes: Manually operated valves; gear operated valves; check valves, choke valves,

fittings; valve boxes; strainers; manifolding; piping; risers; and aggregate value of these items for process and secondary utility or fire protection lines within process plant plot limit (process piping on plot); trunk lines, transfer lines and tie lines connecting two or more plants or facilities; gathering lines

and test lines serving more than one well.

Excludes: Oil sewer and sanitary sewer lines (0037); off plot fire protection lines (0038);

off plot utility lines (0040); oil or gas producer well flow line or test line serving only one well (0049); well pipe (0064); pipeline supports, stanchions and trenches (0042); instruments and control systems (0059); and cathodic protection (0085). Record automatic shut-off and pressure regulator valves,

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variable pressure alarm valves, electric motor, solenoid diaphragm, air, or hydraulic operated valves, instrument air piping and flow and displacement meters under code 0059.

3.33 **UTILITY PIPELINES-040**

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Primary pipelines used for water, fuel oil, sludge fuel, natural gas, steam, air and other commodities supplied and distributed to users as a utility service.

Includes: Manually operated valves, fittings, strainers and off plot lateral line service up

to facility or plot area served.

Excludes: Oil sewer and sanitary sewer lines (0037); off plot fire protection lines (0038);

> process lines, pipeline for water supply well and water/gas injection well and salt water disposal wells (0039); secondary utility lines within process plant plot limits (0039); oil well flow lines serving one well (0049); well pipe (0064); pipeline supports, stanchions and trenches (0042); automatic valves, meters,

instruments, and control systems (0059); and cathodic protection (0085).

PIPELINE SUPPORTS and TRENCHES-0042 3.34

Pipeline supports, stanchions, brackets, anchors, manifold pits, trenches, pipe culverts and pipeline trestles for off plot pipelines.

Includes: Airport fueling pits.

Stairs and walkways over pipelines and pipe trenches (0014). Excludes:

> culverts (0016); sewer basins, pits, sumps and catch basins (0030); flow line and test line supports (0049). Process piping supports and brackets within

plant plot area (0071).

FURNACES, BOILERS AND HEATERS-0043 3.35

Oil and gas product processing furnaces and heaters; boilers, fired reboilers; waste gas flares and industrial water heating equipment.

Includes: Steel boiler frames, grates, fireboxes and burners. Automatic dampers, fire

brick and tile work, breeching, duct work and coils; related stacks, stairways

and ladders.

Water heaters serving a single building (0025, 0072); disposal furnaces, dryers Excludes:

and kilns (0052); instruments and control systems (0059); laboratory ovens

and furnaces (0062); and forges and heat treating furnaces (0065).

3.36 FRACTIONATORS AND PROCESS TOWERS-0044

Multiple plate or packed columns and other unfired pressure vessels with complex internals including stabilizer crude distillation; crude topping and vacuum columns; fuel oil, gas oil and polymer strippers; reactors; hydro formers and thermal reformers; absorbers; scrubbers; debutanizers; depropanizers; and slop dehydrators.

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Includes: Linings, insulation, baffles, and all internals. Ladders, stairways and platforms

serving a single column.

Excludes: Unfired pressure vessels with simple internals (0033); heat exchangers (0045);

gauges, automatic valves, and control instruments (0059); superstructures

(0071)

3.37 <u>HEAT EXCHANGERS, CONDENSERS, AND COILS-0045</u>

Unfired heat transfer equipment of various types including: shell and tube exchangers; double pipe exchangers; vapor heat exchangers; tar heat exchangers; jet condensers; surface and box condensers; vapor condensing boxes; tar cooling boxes; residue and asphalt cooling drums; reboilers; heat economizers; preheaters; refrigeration or cooling coils; heating coils; and tube bundles. See section 310 of the Accounting Manual for guidelines on capital versus expense policies.

Includes: Complete industrial refrigeration equipment package comprised of drivers,

compressors, condensers, air intake filters, receivers and other machinery

installed as a single equipment unit.

Excludes: Furnaces, boilers, heaters (0043); water and air cooling towers (0054);

compressors not in package units (0055); self-contained AC units (0061); domestic refrigerators (0061); and blower and air handling (HVAC) type AC

units (0068).

3.38 FLOWLINES AND TESTLINES-0049

Steel piping from wells to GOSPs or other general oil or gas collection facilities. A flowline or test line begins at the oil or gas producer well, excluding the automatic or block valve, and ends at a GOSP, a gathering line or other general oil or gas collection facility, excluding the first automatic control or shut-off valve.

Includes: Flowline pipe supports, risers and stanchions.

Excludes: Wellhead equipment (0024); fire protection pipelines (0038); gas and oil

pipelines, water well supply and water/gas injection lines, gathering line and test line serving more than one well (0039); utility pipelines (0040); well pipe

(0064); and automatic valves and control instruments (0059).

3.39 <u>ELECTRIC PRECIPITATORS-0051</u>

Electric precipitators for acid recovery and dehydration of oil.

Includes: Interior piping, electrodes, and other appurtenances.

Excludes: Dryers, kilns, disposal furnaces (0052); and electrostatic air cleaners and

electro dryers (0068).

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3.40 DRYERS, KILNS, AND DISPOSAL FURNACES-0052

Dryers, kilns, retorts, trash burners, incinerators and fume eliminating furnaces.

Includes: Lumber kilns, rotary kilns, Louden dryers, direct and indirect contact dryers and

sand dryers; appurtenances include linings, burners and stacks.

Excludes: Burn-off pits (0030); waste gas flares (0043); electric precipitators (0051);

photographic print dryers (0078); and document shredders and burners

(0079).

3.41 WATER SUPPLY WELLS-0053

Water wells including well casing, shafting, tubing, water columns, permanent derricks and wellheads.

Excludes: Pump shelters (0025); water well supply and injection lines (0039); utility lines

(0040); pumps (0057); drivers (0056, 0058); oil and water/gas injection well

pipe and casing (0064); and portable derricks (0068).

3.42 COOLING TOWERS-0054

Atmospheric and forced draft water evaporative and air cooling towers; air-cooled fin-fan cooling towers. Package cooling tower units with built-in fans, motors, towers, and water basins. Aqua towers, Flour counter flows, and Westinghouse cooling towers.

Includes: Evaporative spray ponds and basins, concrete foundations, tower structures,

and interior piping.

Excludes: Utility lines (0040); motors not in package units (0056, 0058); fans and blowers

not in package units (0055).

3.43 COMPRESSORS, BLOWERS, AND EXHAUSTERS-0055

Rotary and reciprocating compressors; refrigerant, freon or ammonia compressors; centrifugal or axial flow blower fans; induced or forced draft fans; industrial fume or vapor disposal fans; propeller fans and sawdust removal systems.

Includes: Bed plates; lubricators; governors; driving unit if it is an integral part of the

compressor; blower or exhauster.

Excludes: Wall and ceiling fans in buildings (0025); complete refrigeration equipment

package units containing compressor components (0045); motors and engines (0056, 0058); self-contained AC units and domestic refrigerators (0061); portable electric fans (0061); blower and air handling (HVAC) type AC units

(0068); and portable air compressors (0074).

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3.44 ENGINES AND TURBINES-0056

Stationary steam engines. Stationary gas, diesel or gasoline internal combustion engines. Gas, steam or water turbines.

Includes: Aircraft servicing power units, industrial power units, and marine outboard motors. Also includes related couplings (engines, turbines), shafts, reduction

gears, power transmissions, safety guards and railings.

Excludes: Self-contained portable power plants and generator sets such as Kohler and

Homelite (0058); electric motors (0058); generators (0058); drilling equipment

(Asset account 2000681, class 30681-00).

3.45 PUMPS-0057

All pumps: reciprocating, centrifugal, rotary, jet, deep well, vacuum, sump, sewage and special service pumps; risers for submersible deep well pumps.

Includes: Bed plates, governors, oilers and guards.

Excludes: Engine and motor starters (0058); power transmissions (0056, 0058);

interchangeable driving unit not an integral part of pump unit (0056, 0058); drilling equipment (Asset account 2000681, class 30681-00); laboratory test

pumps (0062).

3.46 ELECTRIC MOTORS AND GENERATORS-0058

Electric motors and electric power generators. All types of AC and DC electric power generators.

Includes: Small but complete portable power plants and generators sets such as Kohler

and Homelite, Floodlights, Power transmission units, reduction gear, exciters,

guards, compensators, and grounding.

Excludes: Switchgear located in substations (0021); switchgear not located in substations

(0023); engines and turbines (0056); motors which are an integral part of a

complete equipment unit.

3.47 PLANT INSTRUMENTS AND CONTROL EQUIPMENT-0059

Plant instruments and indicating, recording and control equipment for use on measuring such variables as temperature, pressure, flow, liquid level, electric current and steam pressure. Plant instruments used in process control and product quality in the refinery, stabilizers, pump stations, GOSPs, water treating plants, pressure maintenance plants, oil and gas wells, gas plants, etc. See section 310 of the Accounting Manual for capital versus expense guidelines.

Includes: Air, gas, oil or water meters; control boards, distributed control system (DCS)

panels and cabinets, instrument panels or consoles; flow level or pressure controllers, gauges and recorders; potentiometers; voltage regulators;

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> automatic, electric motor operated, hydraulic, solenoid operated or air operated valves; switches, tubing, wiring, cable and piping for instruments and integrated mechanical/computer control equipment. Aggregate value of these items located within the plant plot area where individual cost is less than the minimum amount of capitalization (instrumentation on plot).

Excludes: Communications equipment (0022); motor control center (0021/0023); laboratory and testing equipment (0062); perishable equipment (0070); drafting and surveying equipment (0078); and individually identifiable computer equipment (not integrated mechanical/computer control equipment) (0081/0082).

PULVERIZING AND SCREEN EOUIPMENT-0060 3.48

All types of grinding, crushing, pulverizing and screen equipment for clay, sand, rock, stones and granular material.

Includes: Hammer mills, roller mills, ball mills and cage mills. Rotary traveling and stationary screens.

Excludes: Motive power if not an integral part of unit (0056/0058); filters for clay treating of petroleum products, dewaxing (0036)

3.49 GAS AND ELECTRICAL APPLIANCES-0061

Self-contained gas and electrical appliances for general industrial and household purposes excluding specialized equipment for hospitals, restaurants, offices and maintenance shops.

Self-contained AC units, water heaters not an integral part of a building, food Includes: freezers, refrigerators, water coolers, refrigerated storage cabinets, chillers, ice cube machines, beverage coolers, floor maintenance machines, vacuum cleaners, clothes washing machines, kitchen gas ranges, portable electric fans, portable space heaters, portable television sets, and other self-contained appliances in general use.

Kilns and disposal furnaces (0052); laboratory and testing equipment (0062); Excludes: weighing and packaging equipment (0066); blower and air handling (HVAC) type AC units (0068); restaurant equipment (0068); hospital equipment (0068); sundry small tools (0069); perishable equipment (0070); drafting and surveying equipment (0078); office machines and appliances (0079)

3.50 <u>LABORATORY AND TESTING EQUIPMENT-0062</u>

Laboratory and testing equipment and apparatus of all types, portable and stationary.

Laboratory ovens and furnaces, distillation apparatus, microscopes, titrimeters, Includes: specific gravity balance scales, centrifuges, incubators, geiger counters, oscilloscopes, gas analyzers, reservoir network analyzers, telephone test equipment, radio test equipment, concrete testers, bottom hold pressure

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gauges, metal detectors, mud testers, driver testing equipment and similar items.

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Excludes: Plant instruments and control systems (0059); laboratory glassware and other

perishable equipment (0070); drafting and surveying equipment (0078); office

machines and appliances (0079).

3.51 STATIONARY HOISTS, DERRICKS AND CRANES-0063

Equipment of a stationary nature for raising, shifting and lowering heavy weights.

Includes: Pole hoists, gin poles, sheer leg, stiff leg and guy derricks; gantry, bridge, stiff

leg and jib cranes; traveling blocks, winches, capstans not a part of marine

vessels.

Excludes: Self-propelled power shovels, cranes and other construction equipment (account

309-98); permanent derricks for water wells (0053); conveyors and elevators

(0067); drilling equipment (Asset account 2000681, class 30681-00).

3.52 WELL PIPE AND CASING-0064

The well pipe landed in a hole from the conductor string to the oil string.

Includes: Subsurface producing equipment such as casing, tubing, ball valves and sucker

rods. Also includes water and gas injection well pipe and casing for pressure

maintenance.

Wellhead equipment (0024); flowlines (0049); well platforms (0027); water Excludes:

supply wells (0053).

3.53 FORGES AND HEAT TREAT FURNACES-0065

Blacksmith forges; rivet heaters; bent treat furnaces and ovens; metal melting furnaces; metal molding machines; and other portable or stationary heating units for the fabrication, forging and forming of metals.

Excludes: Furnaces, boilers, and heaters for oil and gas product processing (0043); kilns

(0052); laboratory ovens and furnaces (0062).

3.54 WEIGHING AND PACKAGING EQUIPMENT-0066

Platform, counter, track, highway, hopper and warehouse scales; fluid processing weighing equipment.

Includes: Automatic hatchers for cement and aggregate; food weighing and marking

registers.

Excludes: Specific gravity balance scales in laboratories (0062); office and postal

scales (0079).

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3.55 CONVEYORS AND ELEVATORS-0067

Continuous belt, monorail, chain, Archimedes screw and roller type conveyors. Portable conveyors, loaders and feeders. Electric, hydraulic and manually operated elevators. Bucket and freight elevators.

Excludes: Driving unit when not an integral part of the conveyor or elevator (0056, 0058);

stationary hoisting equipment (0063); heavy jacks (0068); portable

maintenance equipment (0074).

3.56 GENERAL EQUIPMENT-0068

Includes:

Equipment of a general nature as described below:

Restaurant Equipment - Ovens, ranges, service carts, coffee urns, cold tables, steam tables, beverage dispensers, doughnut machines, juice extractors, food grinders, steam kettles, dishwashing units, mixing vats, toasters, peelers, choppers, butter pat machines and other equipment peculiar to restaurants and cafeterias.

Commissary & Storehouse Equipment - Meat blocks, meat cutters, display cases, storage cabinets, steel shelves and racks, bottling machinery, stackers, sealers and other equipment peculiar to warehousing.

Hospital Equipment - X-ray apparatus, sterilizers, operating tables, dental equipment, steel chairs, hydro-therapy units, electrocardiographs, medical lamps, respirators, surgical pumps, incubators and other equipment peculiar to hospitals and medical facilities.

Maintenance Shops Equipment - Air motors, air hammers, bench grinders, burring machines, carbide flares, chain and lay tongs, concrete guns, drill presses, electric hand drills, hydraulic jacks (heavy), jack hammers, lathes, micrometers, milling machines, paint mixers, paint spraying apparatus, pipe threading machines, portable boring bars, power hack saws, power punches, sand blasting machines, shears, soldering pots and burners, steel troughs, floor surfacers, templates tube cleaners, tube expanders, valve facers, vises, rivet guns, etc.

Barrel washing and reconditioning equipment

Batteries and battery chargers

Blower and air handling (HVAC) type AC units (see 0061 for self-contained AC units)

Crematory and grave equipment

Diving equipment

Safety equipment

Steel shelving

Forklift trucks (old tag series of 89X and similar equipment) other than asset class 30461 and 32461

Other specialized equipment of permanent nature

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Excludes: Refrigeration and cold storage rooms (0025)

Refrigeration machinery (0045)

Self-contained gas and electric appliances (0061)

Laboratory and testing equipment (0062)

Scales (0066)

Sundry small tools (0069) Furniture and fixtures (0077)

Drafting and surveying equipment (0078) Office machines and appliances (0079)

Perishable items such as tableware, glassware, cleavers, hand trucks, pallets, surgical instruments, linens, gas masks, stretchers and similar items (0070) Portable maintenance equipment (old tag series of 5X, 6X, 7X, 29X and similar equipment), pile drivers and extractors, asphalt spreaders, tar pots and kettles, acetylene generators, sheep foot rollers and tampers (0074).

3.57 SUNDRY SMALL TOOLS-0069

Sundry maintenance tools. Fixed complements of hand tools for a particular maintenance shop or garage. For investment purposes, an unchanging standard inventory will be set up based on average normal requirements with subsequent replacements charged to expense. Worn-out units of this type will not be reported.

Includes: Calipers, chisels, cutters, dies, flashlights, gauges, goggles, hammers, hand

saws, hydrometers, small jacks, jigs and fixtures, levels, mandrills, pliers, pipe wrenches, portable air drums, punch sets, reamers, safety hats, screwdrivers, tap and die sets, thermometers, tool kits, wrenches and water well maintenance

tools of uncertain life.

Excludes: Chains, cables, gloves, hose, rope and other perishable equipment (0070).

3.58 PERISHABLE EQUIPMENT-0070

Fixed complements of small items of uncertain life and transitory nature which are not an integral part of an individual equipment unit. For investment purposes, an unchanging standard inventory will be set up based on average normal requirements with subsequent replacements charged to expense. Worn-out units of this type will not be reported.

Includes: Awnings, books, cables, clothing, carpets, chains, cutlery, dining hall glassware,

dishes, drapes, gloves, hose, kitchen utensils, laboratory glassware, louvers, portable ladders, portable platforms, pulleys, rope, rugs, shades, sheave and snatch blocks, silverware, shrubbery and gardens, skids, sport supplies, surgical

instruments, tableware, wood shelving.

Excludes: Metal shelving (0068); sundry small tools (0069).

3.59 SUPPORTING STRUCTURES, STAIRWAYS AND ELEVATED WALKS-0071

Supporting structural steel, stairways, ladders, platforms, elevated walks serving two or

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more facilities or units of equipment, and process piping supports and brackets within plant plot area (structural steel on plot); superstructures providing common support for two or more units of equipment; elevated walks in and around large installations connecting related facilities, for example, buildings, tanks and columns.

Excludes: Stairways, ladders and walks attached to a single equipment unit when charged as a part of that particular unit; walks and stairways forming part of a continuous walkway or roadway (0014); bridges, trestles and culverts (0016);

structural steel framework of buildings (0025, 0072).

3.60 PORTABLE AND TEMPORARY BUILDINGS-0072

Mobile accommodation trailers including camping trailers, kitchens, offices, laboratories, bathhouses, etc.; community housing trailers and portables; camps and cabins; all other types of portable buildings. Portable buildings are non-permanent buildings (i.e. not built of materials such as brick, concrete, stone, etc.) that are mounted on an elevated frame or on blocks; buildings that are constructed in such a way as to facilitate portability. Temporary buildings regardless of type of construction.

Excludes: Permanent buildings (0025)

3.61 STRATIGRAPHIC DRILLING EQUIPMENT-0073

Exploration party equipment for structural drilling purposes and the mobile units on which this equipment is permanently mounted.

Includes: Structure drills, masts, bits, snubs, pins, tongs, elevators, slips, drill pipe, liners, rotary assemblies; sand buggies and trailers other than camping. Includes

drilling equipment controlled by Well Services Division used for well workovers

and maintenance.

3.62 PORTABLE MAINTENANCE EQUIPMENT-0074

Portable types of maintenance equipment.

Includes: Portable air compressors- diesel driven (old tag series 5X and similar

equipment)

Portable welding machine-diesel driven (old tag series 6X and similar

equipment)

Portable mixers-concrete, mortar, plaster (old tag series 7X and similar

equipment)

Portable welding machines - electric motor driven or transformer type (old tag

series 29X and similar equipment)

Pile drivers, pile extractors (not marine equipment), sheep foot tampers, asphalt

spreaders, tar pots and kettles, acetylene generators.

Excludes: Motor equipment (old tag series OX, 1X, 2X, 73X - Asset Classes (30990 and

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Construction equipment (old tag series 3X, 4X, 5X, 6X, 7X, 8X, 24X, 29X, 89X-

Asset Classes 30998 and 32898; 30461 and 32461)

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Portable electric power plants other than for construction (old tag series 24X

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and similar equipment) (0058)

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Forklift trucks (old tag series 89X and similar equipment) other than for

construction (0068)

3.63 RECREATIONAL FACILITIES-0076

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Equipment and facilities devoted to employee recreation.

Includes: Baseball diamonds and bleachers

Bowling alleys and pin setting machines

Football and rugby pitches

Gymnasium and sports equipment

Hobby shop equipment

Musical instruments of all types

Playgrounds Ping-pong tables

Pool tables and shuffle boards

Scoreboards Swimming pools

Tennis, volley, basketball and badminton courts

Theater projection and sound equipment

Excludes: Buildings (0025, 0072); gas and electrical appliances (0061); perishable

equipment (0070); furniture and fixtures (0077); office machines and

appliances (0079); non-recreational movie projectors (0078).

3.64 FURNITURE AND FIXTURES-0077

Fixed complements of furniture and fixtures for offices, employee housing, dining halls, recreational facilities, laboratories, schools, storehouses, medical facilities, and various service locations. For capitalization purposes, an unchanging, standard inventory will be set up based on average normal requirements with subsequent replacements charged to expense. Worn-out units of this type will not be reported. Only substantial changes in quantity or type of inventory will be recorded.

Includes: Desks, chairs, coat racks, file cabinets, dining tables, clocks, beds, dressers,

rugs and carpets, pictures, telephone stands, sideboards, storage cabinets,

bookcases, end tables, typewriter stands, sofas, etc.

Excludes: Gas and electrical appliances (0061); laboratory and testing equipment (0062);

perishable equipment (0070); drafting and surveying equipment (0078); office

machines and appliances (0079).

3.65 DRAFTING, SURVEYING AND PHOTOGRAPHIC EQUIPMENT-0078

Specialized equipment used in drafting and surveying services, cartography, seismography, geophysical interpretation, blue printing photography, and also photography equipment of a general nature.

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Includes: Alidades, compasses, transits, theodolites, drafting tables, blueprinting machines, plan copiers, print dryers, gravitometers, magnetometers, seismometers, telescopes, binoculars, cameras, video cameras, movie cameras, non-recreational movie projectors and photographic darkroom equipment.

Excludes: Plant instruments and control equipment (0059); laboratory and testing equipment (0062); microfilm and microfiche equipment (0079); perishable equipment (0070); office photocopiers (0079); office machines and appliances (0079); and theater movie projectors (0076).

3.66 OFFICE MACHINES AND APPLIANCES-0079

Every type of office machine or appliance applicable to business office transactions and operations.

Includes: Adding machines, calculators, general computers, typewriters, word processors, dictaphones, sorters, bursters, printing presses, cash registers, safes, office photocopiers, microfilm and microfiche equipment.

Excludes: Gas and electric appliances (0061); laboratory and testing equipment (0062); perishable equipment (0070); furniture and fixtures (0077); drafting, surveying and photographic equipment (0078).

3.67 COMPUTER AND EDP EQUIPMENT PURCHASED UP TO 12/31/84-0081

All computer equipment and associated peripherals.

Includes: Mainframe, mini, and personal computers; central processing units, power units, coolant distribution units, tape drives and controllers, disc units, operator consoles, printers and visual display units, etc. Process control computers and peripherals which can be individually and separately identified as computer equipment.

Excludes: Process control equipment which is integrated mechanical and computer aided control equipment (0059); office machines, and appliances (0079).

3.68 COMPUTER AND EDP EQUIPMENT PURCHASED AFTER 12/31/84-0082

Same definition as for item rate code 0081.

3.69 CATHODIC PROTECTION-0085

Installations for reducing electrolytic corrosion of metal installations or structures; pipelines - underground, under water, or partially buried or submerged.

Includes: Rectifiers; transformers; electric power generators; engines; windmills; fuel tanks; control and safety switches; wiring; anodes; anode beds; cathodic ground wells; equipment shelters; and solar power generator equipment used to power cathodic protection installations.

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