



Schedule ID and Coding Dictionary

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1.0 PURPOSE

This document outlines Owner's requirements with respect to Resources (ID and Code), Activity Code and ID's that shall be implemented in all project schedules developed by Contractors for Owner program. This will allow Owner to develop layout templates to roll out information and schedules.

This document will be updated periodically through the life cycle of project to reflect additional coding that may be required for the execution of project.

All Contractors shall comply with the most current version of this document.

2.0 ACTIVITY ID CODING STRUCTURE

The objective of this section is to facilitate the application of uniform Primavera (P6) activity ID coding structure across Owner program.

2.1 General: XXX-Y-ZZ-####

XXX (UNIT Designation):

The first 3 digits are as per CKPCO-GEN-0000-PC-LST-00001 CKPC Project Work Breakdown Structure. Please refer to the latest revision of this document for any update (if any).

Y (Phase Designation):

Code	Description
M	Project / Unit Key Milestones
I	Schedule Integration Points (SIP's)
G	General / Common
E	Engineering
P	Procurement
N	Contracts
F	Off-Site Fabrication / Construction
C	Construction (On Site Construction)

ZZ (Prime Discipline Designation):

Code	Description
PM	Project Management and Supports
GN	General
PR	Process
CV	Civil

ST	Structural Steel
PG	Piling
CF	Structural Concrete
PV	Concrete Paving
BA	Buildings
ME	Mechanical (Static, Rotary, Packages)
HV	HVAC
PP	Piping
PL	Pipeline
EL	Electrical
CB	Cable Pulling and termination
EH	Electrical Heat Tracing and Insulation
IC	Instrumentation & Control and Automation
MO	Module Fabrication
HY	Hydrotest and Re-instatement
IS	Insulation
EH	EHT
PC	Pre-commissioning
CO	Commissioning & Start up

XXXX (Sequence Number):

2.2 Schedule Integration Points (SIP): XXX-Y-ZZ - SIP#

XXX (UNIT Designation):

The first 3 digits are as per CKPCO-GEN-0000-PC-LST-00001 CKPC Project Work Breakdown Structure. Please refer to the latest revision of this document for any update (if any).

Y (Phase Designation):

Code	Description
M	Project/Unit Key Milestones
I	Schedule Integration Points (SIP's)
G	General/Common
E	Engineering

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P	Procurement
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F	Off-Site Module Fabrication
C	Construction (On Site Construction)
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EH	EHT
PC	Pre-commissioning

CO Commissioning & Start up

SIP#: Unique Number for each SIP issued by Owner

2.3 Turnover Commissioning Packages (TCPs): XXX-Sys

XXX (UNIT Designation):

The first 3 digits are as per CKPCO-GEN-0000-PC-LST-00001 CKPC Project Work Breakdown Structure. Please refer to the latest revision of this document for any update (if any).

System number (provided by SCU)

Example:

- CUB-980-G-01: Gas Turbine
- CUB-930-NG-01: Natural Gas772
- CUB-910-GLCR-01: Glycol Cooling Return

3.0 GLOBAL ACTIVITY CODES

The objective of this section is to facilitate the application of uniform primavera (P6) activity coding structure across Owner program.

Contractor shall set up all implement the following code as Global Code in Primavera database.

If Contractor requires using additional code values under global, prior approval from Owner is required. All Owner mandatory codes shall start with "CK."

Any additional codes used by Contractor shall be created under "Project Codes" and such codes shall not start with "CK".

Code 1	Description	Length of code value
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CK.UN	Unit Code	3 Character
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Code Value	Code Description
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CUB	CUB
PDH	PDH
PPA	PPA
PHA	PHA
INF	INFRASTRUCTURE
GEN	COMMON

Code 2	Description	Length of code value
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CK.AR	Area	4 Character
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Please note that Contractors shall add code values as per the latest level III WBS. Please refer to the latest revision of CKPCO-GEN-0000-PC-LST-00001 CKPC Project Work Breakdown Structure document for updated information.

0000	GENERAL AREA
8100	PRODUCT HANDLING AND RAIL LOADING FACILITY
8200	PRODUCT BAGGING FACILITY
8600	RAIL YARD
8700	HOPPER CAR CLEANING FACILITY
8400	FLARE AREA
8500	PRODUCT STORAGE FACILITY
8800	RESERVED FOR FUTURE INFRASTRUCTURE
8900	RESERVED FOR FUTURE INFRASTRUCTURE
9100	WATER (Raw, Potable, Utility, Demin)
9200	FIRE WATER AREA
9300	BFW, STEAM & CONDENSATE AREA
9400	NATURAL GAS & FUEL GAS AREA
9500	AIR & NITROGEN AREA
9600	WASTE WATER COLLECTION & TREATING AREA
9700	HOT & COLD GLYCOL AREA
0100	FEED TREATING & DRYING
0200	DEPROPANIZER AREA
0300	REACTION
0400	REGENERATION (CCR)
0500	REACTOR EFFLUENT COMPRESSION & TREATING
0600	PRODUCT SEPARATION
0700	DEETHANIZER
0800	C3 SPLITTER / SHP
0900	ISBL UTILITIES
1000	ETHYLENE PURIFICATION
1100	NITROGEN PURIFICATION
1200	HYDROGEN PURIFICATION

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1500	CO-CATALYST SUPPLY
2000	PROPYLENE PURIFICATION
2100	NITROGEN REGENERATION
4100	REACTION SYSTEM – HOMO & RANDOM
4300	REACTION SYSTEM - IMPACT
5000	RESIN DEGASSING
5200	VENT RECOVERY
6200	ADDITIVE ADDITION
7000	PELLETING
9000	ISBL UTILITIES

Code 3	Description	Length of code value
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CK.EWP	Engineering Work Packages	17 Characters
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Code Value	Code Description
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EWP#	EWP Description
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Code 4	Description	Length of code value
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CK.CWP	Construction Work Packages	17 Characters
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Code Value	Code Description
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CWP#	CWP Description
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Code 7	Description	Length of code value
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CK.RS	Responsible Organization	2 Characters
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Code Value	Code Description
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TBD	Contractor Name (provided by Owner)
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This list will be updated for future Contractors.

Code 8	Description	Length of code value
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CK.L1	Level I Schedule	1 Characters
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Code Value	Code Description
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1	Key Milestone
2	Schedule Integration Points
3	Key Project Reviews / Workshops
4	Engineering

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- 5 Critical & Long Lead Equipment
- 6 Procurement (Non-Long Lead Items)
- 7 Off-site Module Fabrication and Assembly
- 8 Site Construction
- 9 Pre-comm.
- 10 Comm. / Start-up

Contractors shall create WBS summary or LOE for each of the above level I categories.

Code 9	Description	Length of code value
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CK.L2	Level II Schedule	2 Characters
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Code Value	Code Description
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- | | |
|----|--|
| 1 | Key Milestone |
| 2 | Schedule Integration Points |
| 3 | Key Project Reviews / Workshops |
| 4 | Engineering: |
| 4A | Process |
| 4B | Civil, Structural and Architectural |
| 4C | Mechanical |
| 4D | Piping |
| 4E | 3D Model Review |
| 4F | Electrical |
| 4G | Insulation |
| 4H | Control Systems & Automation |
| 4I | EWP's |
| 5 | Procurement: |
| 5A | Contracts |
| 5B | Critical & Long Lead Equipment |
| 5C | Non-Critical Equipment |
| 6 | Off-site Fabrication & Module Assembly |
| 7 | Construction (Site): |
| 7A | Early Work and U/G Piping |

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7B Piling

7C, 7D, 7E,.....) further detail shall be provided by Contractor for as per Owner Level 3 WBS (Areas) and then above ground activities to be included for each area i.e. Foundation (Structural Concrete), Modules Setting, Equipment Setting, Structural Steel Installation (Off-module), A/G Piping (Off-module), Buildings & HVAC, Electrical (Equip., Off-module Cable Trays, Cable Pulling & Termination), Electrical Heat Tracing, Instrumentation, Automation (MAC), Insulation & Painting.

8 Pre-comm. & System Completions

Activities in this section shall show system Blocks as per sequence provided by CSU from MC date.

9 Comm. / Start-up

To be Updated Later.

Code 10	Description	Length of code value
---------	-------------	----------------------

CK.SIP	Schedule Integration Points	4 Characters
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Code Value	Code Description
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SIP#	SIP# and Description (provided by Owner)
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Code 11	Description	Length of code value
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CK.RES	Resource Code	4 Characters
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Code Value	Code Description
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Engineering

EGN	Engineering – General
ESS	Structural Steel
EBA	Buildings
EME	Mechanical
EHV	HVAC
EPP	Piping
EPL	Pipeline
EEL	Electrical
EEH	Electrical Heat Tracing
EIC	Instrumentation and Control
EAU	Automation
EPR	Process
ETL	Telecommunications

Document Title:

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GN	Home/Site Office Supports
D1	P&ID IFC
D2	Piling IFC
D3	ISO IFC
D4	Steel IFC
D5	EHT IFC
D6	Cable Tray IFC
D7	Concrete IFC

Construction

CEW	Civil / Earthwork
CUG	Underground Piping
CPI	Piling
CCN	Concrete
CSS	Structural Steel
CBA	Building
CME	Equipment
CMDF	Module Fabrication
CMDT	Module Transportation
CMD	Module setting
CPP	Piping
CPL	Pipeline
CEL	Electrical
CEH	Electrical Heat Tracing
CIC	Instrumentation and Control
CCT	Cable Tray
CAU	Automation
CIN	Insulation
CCP	Coating & Painting
CHT	Hydrotest
CCL	Pipe Cleaning and Reinstatement

Document Title:
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CLC	Loop Check
CMB	Motor Run-ins
CPU	Punch List
CSF	Scaffolding
CCM	Commissioning

Construction Equipment

HC001	Heavy Lift Crane 5000 Ton Tower
HC002	Heavy Lift Crane 1600 Ton Crawler
HC003	Heavy Lift Crane 800 Ton Crawler
HC004	Heavy Lift Crane 660 Ton Crawler
HC005	Heavy Lift Crane 500 Ton All Terrain
HC006	Heavy Lift Crane 400 Ton Crawler
HC007	Heavy Lift Crane 300 Ton Crawler
HC008	Heavy Lift Crane 300 Ton All Terrain
HC009	Heavy Lift Crane 250 Ton Crawler
HC010	Heavy Lift Crane Less than 200 Ton
HT001	Heavy Truck SPMT 6 Axles
HT002	Heavy Truck SPMT 12 Axles
HT003	Heavy Truck SPMT 24 Axles
HT004	Heavy Truck SPMT 48 Axles

Code 12	Description	Length of code value
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CK.DS	Discipline	3 Characters
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Code Value	Code Description
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3D	3D Modeling
AU	Automation
BA	Buildings and Architectural
CC	Construction Completion
CF	Fireproofing
CI	Coating & Insulation
CM	Commissioning

Document Title:
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CN	Contracts Services
CV	Civil
EW	Early Work and Deep Underground Piping
EH	Electrical Heat Tracing (EHT)
EL	Electrical
FC	Foundations and Concrete
GN	General
HS	Health, Safety & Environment
IC	Instrumentation and Control
IP	Integrated Plant Protection Services (IPPS)
MD	Modularization
ME	Mechanical
HV	HVAC
PI	Piling
PC	Pre-Commissioning
PL	Pipeline
PM	Project Management
PU	Punch List
PO	Procurement
PP	Piping
PQ	Project Quality
PR	Process
SH	Site Handover
SS	Structural
SU	Start-up
TL	Telecommunication

Code 13	Description	Length of code value
CK.ToW	Type of Work	3 Characters
Code Value	Code Description	

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Type of Work Code Values:

		MTO	EWP	CWP	PO	Mat.	Fab.	Shipping	RAS	Install	Turned Over
		1	2	3	4	5	6	7	8	9	10
Earth Work	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
U/G	B	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Piling	C	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
Foundation	D	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Slab On Grade	E	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10
Steel	F	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Piping	G	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10
Pipeline	H	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
Equipment	I	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10
Module	J	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10
Building	K	K1	K2	K3	K4	K5	K6	K7	K8	K9	K10
HVAC	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
Electrical	M	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
EHT	N	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10
Instrumentation/Automation	O	O1	O2	O3	O4	O5	O6	O7	O8	O9	O10
Tanks	P	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Insulation/Painting	Q	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10

Code 14	Description	Length of code value
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CK.VS	Vendor	2 Characters
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Code 15	Description	Length of code value
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CK.Block	System Block	4 Characters
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Code Value	Code Description
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CUB Blocks

000	Electrical Distribution
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950A	Instrument Air & Utility Air
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Document Title:
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950B	Nitrogen
970A	Cooling Glycol
920	Fire Water
840	Temporary Flare
940A	Nat Gas Heater & Let Down
910	Water Treatment
890A	Main Interconnecting Piperack
940B	FG Booster
930A	BFW
930B	GTG/HRSG
940C	FG Compressor
970B	Heating Glycol
960	Waste Water Treatment
930C	Condenser Package
980	Electrical Generation
PDH Blocks	
900A	PDH Piperack (PRK)
900B	Fuel Gas Preparation, H2 Purification, H2 Export
300	Rx, CCR, and Heaters
500	Rx Effluent
600	Separation
400	CCR Regen
100	Feed Prep
200	Deprop
700	Deethanizer
800	SHP Rx, and PP Splitter
8500	Propylene Storage Tanks
PPA Blocks	
9500	Flare
9000	ISBL Piperack

Document Title:
Schedule ID and Coding Dictionary

1100	Nitrogen
1200	Hydrogen
1000	Ethylene Purification
2000	Propylene Purification
1500	Alkyl (TEAL)
2100	Nitrogen Compression
4000	Homo/Random Rx
4100	Homo/Random Rx IPDS
5000	Resin Degassing
5200	Vent Recovery
6200	Additive
7000	Pelleting
4300	Impact Rx
4400	Impact Rx IPDS

PHA Blocks

8600	Rail Yard
890B	Rack
8700	Hooper Car Cleaning
8100	Pellet Conveying

Code 16	Description	Length of code value
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CK.SYS	System	3 Characters
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Code Value	Code Description
BFW	Treatment
CA	Conveying Air (Transfer Blowers)
CAT	Catalyst
CATF	Catalyst Fines
CCD	Caustic Closed Drain
CH	Chemical Package
CL	Chlorine
CLA	Chlorine (Air)

Document Title:

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DMDS	DMDS
DMW	Demineralized Water
DPOH	Depropanizer Over Heads
DRO	Deethanizer Rectifier Overheads
DSB	Deethanizer Stripper Bottoms
DSO	Deethanizer Stripper Overheads
E	Ethylene
EHV	Electrical High Voltage
EMV	Electrical Medium Voltage
ELV	Electrical Low Voltage
FG	Fuel Gas
FLC	Flare Cold
FLH	HP Flare
FLL	Flare Low pressure
FW	Fire Water Distribution
G	Gas Turbine
GLCR	Glycol Cooling Return
GLCS	Glycol Cooling Supply
GLHR	Glycol Heating Return
GLHS	Glycol Heating Supply
H	Hydrogen
HCD	Hydrocarbon Closed Drain
HO	Hot Oil
HPPN	High Pressure Purified Nitrogen
IA	Instrument Air
LG	Lift Gas (Net Gas)
N	Nitrogen
NEU	Neutralization (Reactor)
NF	Filtered Nitrogen
NG	Natural Gas

Document Title:

Schedule ID and Coding Dictionary

OG	Off Gas
OSPR	Off Spec Propylene
P	Process
PIA	Process IA
PL	Polypropylene Pellets
PR	Propylene
PRG	Purge Gas H2
PRO	Propane Feed
PROPL	Propane Pipeline
PW	Process Water
RE	Reactor Effluent
REC	Reactor Effluent Compressor
RECD	Reactor Effluent Compressor Discharge
RED	Reactor Effluent Dryers
RF	Reactor Feed
RG	Regen Gas
RW	Raw Water
RY	Rail Yard
SC	Condensate
SCD	Solvent Closed Drain
SH	HP Steam
SL	LP Steam
SLV	Solvent
SS	Sanitary Sewer
SSP	Separation System Product
T2	TEAL
TG	Tail Gas
UA	Utility Air
UW	Utility Water
VG	Vent Gas

WP Potable Water
WW Waste Water Treatment

4.0 RESOURCE ID:

Contractor shall use the following global resource IDs for resource loading in the level III schedule to facilitate resource analysis, roll up etc. at program level.

An update to this document will be provided by Owner when additional resource IDs are required.

If Contractor wishes to use additional resource codes, prior approval from the Owner is required.

4.1 Engineering (Direct Labor):

Resource ID Resource Name

CK.EGN	Engineering – General
CK.EGN1	Engineering – General 1
CK.EGN2	Engineering – General 2
CK.EGN3	Engineering – General 3
CK.EGN4	Engineering – General 4
CK.EGN5	Engineering – General 5
CK.ECV	Civil
CK.ECV1	Civil 1
CK.ECV2	Civil 2
CK.ECV3	Civil 3
CK.ECV4	Civil 4
CK.ECV5	Civil 5
CK.ESS	Structural Steel
CK.ESS1	Structural Steel 1
CK.ESS2	Structural Steel 2
CK.ESS3	Structural Steel 3
CK.ESS4	Structural Steel 4
CK.ESS5	Structural Steel 5
CK.EBA	Buildings and Architectural
CK.EBA1	Buildings and Architectural 1

Document Title:

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CK.EBA2	Buildings and Architectural 2
CK.EBA3	Buildings and Architectural 3
CK.EBA4	Buildings and Architectural 4
CK.EBA5	Buildings and Architectural 5
CK.EME	Mechanical
CK.EME1	Mechanical 1
CK.EME2	Mechanical 2
CK.EME3	Mechanical 3
CK.EME4	Mechanical 4
CK.EME5	Mechanical 5
CK.EHV	HVAC
CK.EHV1	HVAC 1
CK.EHV2	HVAC 2
CK.EHV3	HVAC 3
CK.EHV4	HVAC 4
CK.EHV5	HVAC 5
CK.EPP	Piping
CK.EPP1	Piping 1
CK.EPP2	Piping 2
CK.EPP3	Piping 3
CK.EPP4	Piping 4
CK.EPP5	Piping 5
CK.EPL	Pipeline
CK.EPP1	Pipeline 1
CK.EPP2	Pipeline 2
CK.EPP3	Pipeline 3
CK.EPP4	Pipeline 4
CK.EPP5	Pipeline 5
CK.EEL	Electrical
CK.EEL1	Electrical 1

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CK.EEL2	Electrical 2
CK.EEL3	Electrical 3
CK.EEL4	Electrical 4
CK.EEL5	Electrical 5
CK.EEH	Electrical Heat Tracing
CK.EEH1	Electrical Heat Tracing 1
CK.EEH2	Electrical Heat Tracing 2
CK.EEH3	Electrical Heat Tracing 3
CK.EEH4	Electrical Heat Tracing 4
CK.EEH5	Electrical Heat Tracing 5
CK.EIC	Instrumentation and Control
CK.EIC1	Instrumentation and Control 1
CK.EIC2	Instrumentation and Control 2
CK.EIC3	Instrumentation and Control 3
CK.EIC4	Instrumentation and Control 4
CK.EIC5	Instrumentation and Control 5
CK.EAU	Automation
CK.EAU1	Automation 1
CK.EAU2	Automation 2
CK.EAU3	Automation 3
CK.EAU4	Automation 4
CK.EAU5	Automation 5
CK.EPR	Process
CK.EPR1	Process 1
CK.EPR2	Process 2
CK.EPR3	Process 3
CK.EPR4	Process 4
CK.EPR5	Process 5
CK.ETL	Telecommunications
CK.ETL1	Telecommunications 1

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CK.ETL2 Telecommunications 2

CK.ETL3 Telecommunications 3

CK.ETL4 Telecommunications 4

CK.ETL5 Telecommunications 5

Use of primary resource ID (motherhood) is mandatory by all Contractors. The use of secondary resource IDs (1~5) is optional.

Example:

Resource ID	P6 Description	Full Description
CK.EPR1	Process1	Process Engineering Japan
CK.EPR2	Process2	Process Engineering Canada

4.2 Home/Site Office (Indirect):

Resource ID Resource Name

CK.GN		Home/Site Office Supports
CK.GN	1	Home/Site Office Procurement
CK.GN	2	Home/Site Office Project Control
CK.GN	3	Home/Site Office HSE
CK.GN	4	Home/Site Office Constructions
CK.GN	5	Home/Site Office Project Management
CK.GN	6	Home/Site Office Supports 6
CK.GN	7	Home/Site Office Supports 7
CK.GN	8	Home/Site Office Supports 8
CK.GN	9	Home/Site Office Supports 9

4.3 Construction (Direct Field Labor):

Resource ID Resource Name

CK.CEW		Earthwork
CK.CEW1		Earthwork 1
CK.CEW2		Earthwork 2
CK.CEW3		Earthwork 3
CK.CEW4		Earthwork 4
CK.CEW5		Earthwork 5

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CK.CUG	Underground Piping
CK.CUG1	Underground Piping 1
CK.CUG2	Underground Piping 2
CK.CUG3	Underground Piping 3
CK.CUG4	Underground Piping 4
CK.CUG5	Underground Piping 5
CK.CPI	Piling
CK.CPI1	Piling 1
CK.CPI2	Piling 2
CK.CPI3	Piling 3
CK.CPI4	Piling 4
CK.CPI5	Piling 5
CK.CCN	Concrete
CK.CCN1	Concrete 1
CK.CCN2	Concrete 2
CK.CCN3	Concrete 3
CK.CCN4	Concrete 4
CK.CCN5	Concrete 5
CK.CSS	Structural Steel
CK.CSS1	Structural Steel 1
CK.CSS2	Structural Steel 2
CK.CSS3	Structural Steel 3
CK.CSS4	Structural Steel 4
CK.CSS5	Structural Steel 5
CK.CBA	Building
CK.CBA1	Building 1
CK.CBA2	Building 2
CK.CBA3	Building 3
CK.CBA4	Building 4
CK.CBA5	Building 5

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CK.CME	Equipment
CK.CME1	Equipment1
CK.CME2	Equipment2
CK.CME3	Equipment3
CK.CME4	Equipment4
CK.CME5	Equipment5
CK.CMD	Module setting
CK.CMD1	Module setting 1
CK.CMD2	Module setting 2
CK.CMD3	Module setting 3
CK.CMD4	Module setting 4
CK.CMD5	Module setting 5
CK.CMDF	Module Fabrication and Assembly
CK.CMDF1	Module Fabrication and Assembly 1
CK.CMDF2	Module Fabrication and Assembly 2
CK.CMDF3	Module Fabrication and Assembly 3
CK.CMDF4	Module Fabrication and Assembly 4
CK.CMDF5	Module Fabrication and Assembly 5
CK.CMDT	Module Transportation
CK.CMDT1	Module Transportation 1
CK.CMDT2	Module Transportation 2
CK.CMDT3	Module Transportation 3
CK.CMDT4	Module Transportation 4
CK.CMDT5	Module Transportation 5
CK.CPP	Piping
CK.CPP1	Piping 1
CK.CPP2	Piping 2
CK.CPP3	Piping 3
CK.CPP4	Piping 4
CK.CPP5	Piping 5

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Schedule ID and Coding Dictionary

CK.CPL	Pipeline
CK.CPL1	Pipeline 1
CK.CPL2	Pipeline 2
CK.CPL3	Pipeline 3
CK.CPL4	Pipeline 4
CK.CPL5	Pipeline 5
CK.CEL	Electrical
CK.CEL1	Electrical 1
CK.CEL2	Electrical 2
CK.CEL3	Electrical 3
CK.CEL4	Electrical 4
CK.CEL5	Electrical 5
CK.CEH	Electrical Heat Tracing
CK.CEH1	Electrical Heat Tracing 1
CK.CEH2	Electrical Heat Tracing 2
CK.CEH3	Electrical Heat Tracing 3
CK.CEH4	Electrical Heat Tracing 4
CK.CEH5	Electrical Heat Tracing 5
CK.CIC	Instrumentation and Control
CK.CIC1	Instrumentation and Control 1
CK.CIC2	Instrumentation and Control 2
CK.CIC3	Instrumentation and Control 3
CK.CIC4	Instrumentation and Control 4
CK.CIC5	Instrumentation and Control 5
CK.CAU	Automation
CK.CAU1	Automation 1
CK.CAU2	Automation 2
CK.CAU3	Automation 3
CK.CAU4	Automation 4
CK.CAU5	Automation 5

Document Title:

Schedule ID and Coding Dictionary

CK.CIN	Insulation
CK.CIN1	Insulation 1
CK.CIN2	Insulation 2
CK.CIN3	Insulation 3
CK.CIN4	Insulation 4
CK.CIN5	Insulation 5
CK.CCP	Coating & Painting
CK.CCP1	Coating & Painting 1
CK.CCP2	Coating & Painting 2
CK.CCP3	Coating & Painting 3
CK.CCP4	Coating & Painting 4
CK.CCP5	Coating & Painting 5
CK.CHT	Hydrotest
CK.CHT1	Hydrotest 1
CK.CHT2	Hydrotest 2
CK.CHT3	Hydrotest 3
CK.CHT4	Hydrotest 4
CK.CHT5	Hydrotest 5
CK.CCL	Pipe Cleaning and Reinstatement
CK.CCL1	Pipe Cleaning and Reinstatement 1
CK.CCL2	Pipe Cleaning and Reinstatement 2
CK.CCL3	Pipe Cleaning and Reinstatement 3
CK.CCL4	Pipe Cleaning and Reinstatement 4
CK.CCL5	Pipe Cleaning and Reinstatement 5
CK.CLC	Loop Check
CK.CLC1	Loop Check 1
CK.CLC2	Loop Check 2
CK.CLC3	Loop Check 3
CK.CLC4	Loop Check 4
CK.CLC5	Loop Check 5

Document Title:
Schedule ID and Coding Dictionary

CK.CMB	Motor Run-ins
CK.CMB1	Motor Run-ins 1
CK.CMB2	Motor Run-ins 2
CK.CMB3	Motor Run-ins 3
CK.CMB4	Motor Run-ins 4
CK.CMB5	Motor Run-ins 5
CK.CPU	Punch List
CK.CPU1	Punch List 1
CK.CPU2	Punch List 2
CK.CPU3	Punch List 3
CK.CPU4	Punch List 4
CK.CPU5	Punch List 5
CK.CSF	Scaffolding
CK.CSF1	Scaffolding 1
CK.CSF2	Scaffolding 2
CK.CSF3	Scaffolding 3
CK.CSF4	Scaffolding 4
CK.CSF5	Scaffolding 5
CK.CCM	Commissioning
CK.CCM1	Commissioning 1
CK.CCM2	Commissioning 2
CK.CCM3	Commissioning 3
CK.CCM4	Commissioning 4
CK.CCM5	Commissioning 5

Under development

Use of primary resource ID (motherhood) is mandatory by all Contractors. The use of secondary resource IDs (1~5) is optional.

Example:

Resource ID	P6 Description	Full Description
CK.CIN1	Insulation 1	Hot Insulation crew 1

CK.CIN2

Insulation 2

Hot Insulation crew 2

4.4 Key Engineering Key Deliverable Quantities (Non-Labor):

Resource ID	Resource Name
Engineering DWGs	
CK.D1	P&ID IFC (EA)
CK.D2	Piling IFC (EA)
CK.D3	ISO IFC (LM)
CK.D4	Steel IFC (MT)
CK.D5	EHT IFC (LM)
CK.D6	Cable Tray IFC (LM)
CK.D7	Concrete IFC (M3)
CK.D8	Engineering Deliverable 8
CK.D9	Engineering Deliverable 9
CK.D10	Engineering Deliverable 10

4.5 Construction (Material):

Resource ID	Resource Name
CK.MEW	Civil / Earthwork (CM)
CK.MEW1	Civil / Earthwork (CM) 1
CK.MEW2	Civil / Earthwork (CM) 2
CK.MEW3	Civil / Earthwork (CM) 3
CK.MEW4	Civil / Earthwork (CM) 4
CK.MEW5	Civil / Earthwork (CM) 5
CK.MUG	Underground Piping
CK.MUG1	Underground Piping (LM) 1
CK.MUG2	Underground Piping (LM) 2
CK.MUG3	Underground Piping (LM) 3
CK.MUG4	Underground Piping (LM) 4
CK.MUG5	Underground Piping (LM) 5
CK.MPI	Piling (EA)

Document Title:

Schedule ID and Coding Dictionary

CK.MPI1	Piling (EA) 1
CK.MPI2	Piling (EA) 2
CK.MPI3	Piling (EA) 3
CK.MPI4	Piling (EA) 4
CK.MPI5	Piling (EA) 5
CK.MCN	Concrete (CM)
CK.MCN1	Concrete (CM) 1
CK.MCN2	Concrete (CM) 2
CK.MCN3	Concrete (CM) 3
CK.MCN4	Concrete (CM) 4
CK.MCN5	Concrete (CM) 5
CK.MSS	Structural Steel (MT)
CK.MSS1	Structural Steel (MT) 1
CK.MSS2	Structural Steel (MT) 2
CK.MSS3	Structural Steel (MT) 3
CK.MSS4	Structural Steel (MT) 4
CK.MSS5	Structural Steel (MT) 5
CK.MBA	Buildings (SM) 1
CK.MBA1	Building (SM) 2
CK.MBA2	Buildings (SM) 3
CK.MBA3	Buildings (SM) 4
CK.MBA4	Buildings (SM) 5
CK.MBA5	Buildings (SM) 6
CK.MME	Equipment (EA)
CK.MME1	Equipment (EA) 1
CK.MME2	Equipment (EA) 2
CK.MME3	Equipment (EA) 3
CK.MME4	Equipment (EA) 4
CK.MME5	Equipment (EA) 5
CK.MMF	Module (EA)

Document Title:

Schedule ID and Coding Dictionary

CK.MMF1	Module (EA) 1
CK.MMF2	Module (EA) 2
CK.MMF3	Module (EA) 3
CK.MMF4	Module (EA) 4
CK.MMF5	Module (EA) 5
CK.MPP	Piping (LM)
CK.MPP1	Piping (LM) 1
CK.MPP2	Piping (LM) 2
CK.MPP3	Piping (LM) 3
CK.MPP4	Piping (LM) 4
CK.MPP5	Piping (LM) 5
CK.MPL	Pipeline (LM)
CK.MPL1	Pipeline (LM) 1
CK.MPL2	Pipeline (LM) 2
CK.MPL3	Pipeline (LM) 3
CK.MPL4	Pipeline (LM) 4
CK.MPL5	Pipeline (LM) 5
CK.MEC	Electrical Cable (LM)
CK.MEC1	Electrical Cable (LM) 1
CK.MEC2	Electrical Cable (LM) 2
CK.MEC3	Electrical Cable (LM) 3
CK.MEC4	Electrical Cable (LM) 4
CK.MEC5	Electrical Cable (LM) 5
CK.MIC	I & C Cable (LM)
CK.MIC1	I & C Cable (LM) 1
CK.MIC2	I & C Cable (LM) 2
CK.MIC3	I & C Cable (LM) 3
CK.MIC4	I & C Cable (LM) 4
CK.MIC5	I & C Cable (LM) 5
CK.MEH	Electrical Heat Tracing

Document Title:

Schedule ID and Coding Dictionary

CK.MEH1	Electrical Heat Tracing (LM) 1
CK.MEH2	Electrical Heat Tracing (LM) 2
CK.MEH3	Electrical Heat Tracing (LM) 3
CK.MEH4	Electrical Heat Tracing (LM) 4
CK.MEH5	Electrical Heat Tracing (LM) 5
CK.MIE	I & C Equipment (EA)
CK.MIE1	I & C Equipment (EA) 1
CK.MIE2	I & C Equipment (EA) 2
CK.MIE3	I & C Equipment (EA) 3
CK.MIE4	I & C Equipment (EA) 4
CK.MIE5	I & C Equipment (EA) 5
CK.MCT	Cable Tray (LM)
CK.MCT1	Cable Tray (LM) 1
CK.MCT2	Cable Tray (LM) 2
CK.MCT3	Cable Tray (LM) 3
CK.MCT4	Cable Tray (LM) 4
CK.MCT5	Cable Tray (LM) 5
CK.MIN	Insulation
CK.MIN1	Insulation (SM) 1
CK.MIN2	Insulation (SM) 2
CK.MIN3	Insulation (SM) 3
CK.MIN4	Insulation (SM) 4
CK.MIN5	Insulation (SM) 5
CK.MCP	Coating & Painting
CK.MCP1	Coating & Painting (SM) 1
CK.MCP2	Coating & Painting (SM) 2
CK.MCP3	Coating & Painting (SM) 3
CK.MCP4	Coating & Painting (SM) 4
CK.MCP5	Coating & Painting (SM) 5
CK.MHT	Hydro-test Pack (EA)

Document Title:

Schedule ID and Coding Dictionary

CK.MHT1	Hydro-test Pack (EA) 1
CK.MHT2	Hydro-test Pack (EA) 2
CK.MHT3	Hydro-test Pack (EA) 3
CK.MHT4	Hydro-test Pack (EA) 4
CK.MHT5	Hydro-test Pack (EA) 5
CK.MCL	Pipe Cleaning and Reinstatement (EA)
CK.MCL1	Pipe Cleaning and Reinstatement (EA) 1
CK.MCL2	Pipe Cleaning and Reinstatement (EA) 2
CK.MCL3	Pipe Cleaning and Reinstatement (EA) 3
CK.MCL4	Pipe Cleaning and Reinstatement (EA) 4
CK.MCL5	Pipe Cleaning and Reinstatement (EA) 5
CK.MLC	Loop Check (EA)
CK.MLC1	Loop Check (EA) 1
CK.MLC2	Loop Check (EA) 2
CK.MLC3	Loop Check (EA) 3
CK.MLC4	Loop Check (EA) 4
CK.MLC5	Loop Check (EA) 5
CK.MMB	Motor Run-ins (EA)
CK.MMB1	Motor Run-ins (EA) 1
CK.MMB2	Motor Run-ins (EA) 2
CK.MMB3	Motor Run-ins (EA) 3
CK.MMB4	Motor Run-ins (EA) 4
CK.MMB5	Motor Run-ins (EA) 5
CK.MPU	Punching (EA)
CK.MPU1	Punch A (EA)
CK.MPU2	Punch B (EA)
CK.MPU3	Punch C (EA)
CK.MPU4	Punch (EA)
CK.MPU5	Punch (EA)
CK.MSF	Scaffolding (CM)

Document Title:
Schedule ID and Coding Dictionary

CK.MSF1	Scaffolding (CM) 1
CK.MSF2	Scaffolding (CM) 2
CK.MSF3	Scaffolding (CM) 3
CK.MSF4	Scaffolding (CM) 4
CK.MSF5	Scaffolding (CM) 5

CK.CCM Commissioning

Under development

4.6 Construction (Equipment - Non-Labor):

Resource ID Resource Name

Heavy Lift Cranes

CK.HC001	Heavy Lift Crane 5000 Ton Tower
CK.HC002	Heavy Lift Crane 1600 Ton Crawler
CK.HC003	Heavy Lift Crane 800 Ton Crawler
CK.HC004	Heavy Lift Crane 660 Ton Crawler
CK.HC005	Heavy Lift Crane 500 Ton All Terrain
CK.HC006	Heavy Lift Crane 400 Ton Crawler
CK.HC007	Heavy Lift Crane 300 Ton Crawler
CK.HC008	Heavy Lift Crane 300 Ton All Terrain
CK.HC009	Heavy Lift Crane 250 Ton Crawler
CK.HC010	Heavy Lift Crane 200 Ton All Terrain

Heavy Trucks

CK.HT001	Heavy Truck SPMT 6 Axles
CK.HT002	Heavy Truck SPMT 12 Axles
CK.HT003	Heavy Truck SPMT 24 Axles
CK.HT004	Heavy Truck SPMT 48 Axles
CK.HT005	Heavy Truck Type 5 (Capacity TBD)
CK.HT006	Heavy Truck Type 6 (Capacity TBD)
CK.HT007	Heavy Truck Type 7 (Capacity TBD)
CK.HT008	Heavy Truck Type 8 (Capacity TBD)
CK.HT009	Heavy Truck Type 8 (Capacity TBD)

CK.HT010 Heavy Truck Type 10 (Capacity TBD)

Less than 200 Mega Ton Cranes

CK.MT001 150 Ton Crane
 CK.MT002 100 Ton Crane
 CK.MT003 80 Ton Crane
 CK.MT004 60 Ton Crane
 CK.MT005 50 Ton Crane
 CK.MT006 28 Ton Crane
 CK.MT007 20 Ton Crane
 CK.MT008 20 Ton Crane Carry Deck
 CK.MT009 20 Ton Crane Picker Truck
 CK.MT010 Cranes Type 10 (Capacity TBD)

Each Contractor may consider additional resource codes to suit their execution requirements and issue for Owner approval.

4.7 Construction Equipment (Common Site Resources Non-Labor):

Resource ID	Resource Name
CK.EQ001	Piling Rig
CK.EQ002	Concrete Pump Truck
CK.EQ003	Mobile Telescopic Man Lift
CK.EQ004	Mobile Scissor Lift
CK.EQ005	Mobile Air Compressor
CK.EQ006	Plate Compactor
CK.EQ007	Sheep's Foot Packer
CK.EQ008	Skid Steer (Bobcat)
CK.EQ009	Backhoe
CK.EQ010	Forklift
CK.EQ011	Diesel Generator
CK.EQ012	Light Tower
CK.EQ013	Welding Machine
CK.EQ014	Dewatering Pump

CK. EQ015 Vacuum Truck
CK. EQ016 Dump Truck
CK. EQ017 Flat Deck Trailer

5.0 CSU ACTIVITY AND RESOURCE CODES (FOR OWNER ONLY) - UNDER DEVELOPMENT

Code 17 Description Length of code value

CK.WT2 Work Type (Low Level) 3 Characters

Code Value **Code Description**

BRC Burner Cleaning
CAT Catalyst Loading
CHC Chemical Cleaning
FCD Function Check - Dynamic
FCS Function Check - Static
GLK Gross Leak Check
HTD Heater Dry out
LPC Loop Check
O2F O2 Free
STB Steam Blows
VRA Verification - Analyzer
VRE Verification - Electrical
VRH Verification - Electric Heat Tracing
VRI Verification - Instrument
VRP Verification - Piping
VRR Verification - Rotating
VRS Verification – Stationary

Code 18 Description Length of code value

CK.CS Cleanliness Spec 2 Characters

Code Value **Code Description** **Notes**

SA Gross Large foreign material removed

Document Title:
Schedule ID and Coding Dictionary

SB	Medium (M1)	All visible foreign material removed to reduce time for future cleaning or minimize impact of changing out strainers/filters during commissioning.
SC	Medium (M2)	All foreign material to a specified size (microns) is to be removed to protect downstream equipment (I e. catalyst, burner nozzles)
SD	Fine	All foreign material removed to a target spec
Code 19	Description	Length of code value
CK.CM	Cleaning Methods	2 Characters
Code Value	Code Description	Notes
MA	Low Velocity Flush	Provide a flush equivalent to normal operating velocity.
MB	Pig with Swab/Scrubber Pig	Pig from source to destination (generally header and long laterals only)
MC	Air blow	Traditional continuous blow
MD	Rupture Blow	Pressurize with air then release suddenly
ME	Vacuum Blow	As per rupture blow except use vacuum
MF	Pulse Blow, mix air and water	Engineered blow facilitated by third party contractor.
MG	High Speed Circulation	Circulate fluid with process or third-party high flow pumps to minimum of 125% of normal operating velocity.
MH	Steam Blow	Traditional steam blows
MJ	Steam Spalling	Intermittent steam blows using thermal shock to remove rust
MK	Chemical Cleaning	Third party to include neutralization/ passivation/ disposal
Code 20	Description	Length of code value
CK.DR	Drying Methods	2 Characters
Code Value	Code Description	Notes
RA	Drain hydro test	This is the minimum drying specification where the hydro medium is simply de pressured or drained from the system. This only removes the water or air pressure from the system in a gross

Document Title:
Schedule ID and Coding Dictionary

		fashion. This type of method can only be used where there is no concern for corrosion or freezing.
RB	Drain and add air pressure	The same as Method A, but with the addition of air pressure to force water from all low points and drains. In this method, the expectation is that there is no free standing water in the system and is generally required where freezing is a concern.
RC	Drain and pig	This method involves using a swab pig to force water from a system hydraulically. The water is forced out the end of the system along with the pig using a suitable catcher. Dry air is used to propel the pig through the piping. This method of drying is employed where low points in the system make it impossible to drain water from those areas. Examples are furnace passes and piping systems with liquid traps.
RD	Drain and hot dry	Hot air or Nitrogen is used to dry systems to a specified dew point. This method is used to ensure that there is no water in the system which may be sensitive to corrosion, freezing or interaction with process fluids. Typically, this type of drying requires a significant amount of equipment to facilitate the process, i.e. Compressors, dryers, heaters and dew point measuring devices.
RE	Vacuum Dry	Applying a vacuum to a system will lower the boiling point of water, such that line drying occurs more efficiently at lower temperatures. This method employs vacuum pumps to deliver the negative pressure. The system must be certified as being able to withstand a vacuum before this method can be employed.

Code 21	Description	Length of code value
CK.PV	Preservation Methods	2 Characters
Code Value	Code Description	Notes
VA	I	Dry to 0 Deg. C air dew point at system's outlet only if required by downstream equipment

Document Title:
Schedule ID and Coding Dictionary

VB	II	Drain empty (avoids potential freezing) and conserve cleanliness
VC	III	Nitrogen may be required if presence of rust is absolutely not allowed. Otherwise, use - 40 Deg. C dew point dry air to maintain cleanliness.
VD	IV	Drying to 0 Deg. C air dew point at system's outlet, followed by preservation with -40 Deg. C dew point dry airs are required
VE	V	If chemical cleaning is required then dry until outlet air dew point < 0 Deg. C; otherwise do not dry
VF	VI	Dry until air dew point at system's outlet is<-40 Deg. C
VG	VII	Nitrogen may be required if presence of rust is absolutely not allowed.

Code 22	Description	Length of code value
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CK.SB	Steam Blow Package	3 Characters
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Code Value	Code Description	Notes
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TBD

Code 23	Description	Length of code value
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CK.CC	Chemical Clean Package	3 Characters
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Code Value	Code Description	Notes
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TBD

Code 24	Description	Length of code value
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CK.RL	Role	3 Characters
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Code Value	Code Description	Notes
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CSU	Commissioning & Start-Up	
AUT	Automation	
BUS	Business & Administration	
CPD	Competency Development	
DOC	Document Control	
ENG	Engineering Services	
ENV	Environment & Industrial Hygiene	

Document Title:
Schedule ID and Coding Dictionary

FAA	Finance & Accounting
HMR	Human Resources
HSS	Health, Safety & Security
INM	Information Management
MTC	Maintenance
OPS	Operations
PAF	Public Affairs
POE	Process & Operations Engineering
PRJ	Sustainable Capital Projects
PSF	Process Safety
SCM	Supply Chain Management
TRN	Turnaround

Code 25	Description	Length of code value
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CK.CSU	Resources	4 Characters
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Code Value	Code Description	Notes
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ADM	Administration
ANM	Analyzer Technician
BLM	Boilermaker
BMW	Boilermaker Welder
CON	Contractor – Generic
DCS	Technician
ELE	Electrician
ENG	Engineer
ENV	Environmental Personnel
INP	Inspector
INST	Instrument Technician
INSU	Insulator
IRN	Iron Worker
LBR	Laborer
MTC	Maintenance Coordinator

Document Title:
Schedule ID and Coding Dictionary

MW	Millwright
OPC	Operations Coordinator
OPE	Mobile Equipment Operator
OPR	Operator / Process Unit
PAI	Painter
PE	Process Engineer
PF	Pipefitter
PLN	Planner
SAF	Safety Technician
SAW	Safety Watch / Bottle Watch
SCAF	Scaffolder / Carpenter
SPCE	Specialist – Electrical
SPCI	Specialist – Instrumentation
SPCR	Specialist – Rotating
SPCS	Specialist – Stationary
TEA	Teamster
WEL	Welder
WHS	Warehouse Person
CAT	Catalyst Handling
CHEM	Chemical Cleaning
CMR	Custody Metering
CO2	CO2 Blasting
DET	Controlled Detonation
EQLT	Lube Truck
EQVD	Vacuum Truck – Dry
EQVH	Vacuum Truck – Hybon
EQVW	Vacuum Truck – Wet
HPWW	High Pressure Water Wash
HVC	HVAC
HVWW	High Volume Water Wash

Document Title:
Schedule ID and Coding Dictionary

HWW	Hot Water Wash
MACH	Machining-in-Situ
PCO	Valve Servicing
PIG	Furnace Tube Pigging
PLUG	Hydro/Isolation Plug Service
PSV	PSV Servicing
PWHT	Heat Treatment Service
QC	Quality Control
RAT	Remote Access Technology
REF	Refractory
ROTO	Roto Fan Cleaning
STEM	Steam Blows
TAP	Hot / Cold Tapping
TEN	Hydraulic Torqueing/Tensioning
EC06	Crane - 6 Ton Carry Deck
EC09	Crane - 9 Ton Carry Deck
EC15	Crane - 15 Ton Carry Deck
EC18	Crane - 18 Ton Rough Terrain
EC20	Crane - 20 Ton Rough Terrain
EC30	Crane - 30 Ton Rough Terrain
EC35	Crane - 35 Ton Rough Terrain
EC40	Crane - 40 Ton Rough Terrain
EC60	Crane - 60 Ton Rough Terrain
EC75	Crane - 75 Ton Rough Terrain
ECO	Crane - Over 75 Ton
EQBC	Bobcat
EQFL	Forklift
EQGR	Grader
EQLD	Loader
EQLT	Lube Truck

Document Type: Procedure	Document Number: CKPC0-GEN-0000-PC-PRO-00007	Revision: 0
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Document Title: Schedule ID and Coding Dictionary
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EQPT	Picker Truck
EQZB	Zoom Boom / Forklift
ML40	Man lift - 40 Foot
ML45	Man lift - 45 Foot
ML60	Man lift - 60 Foot
ML125	Man lift - 125 Foot

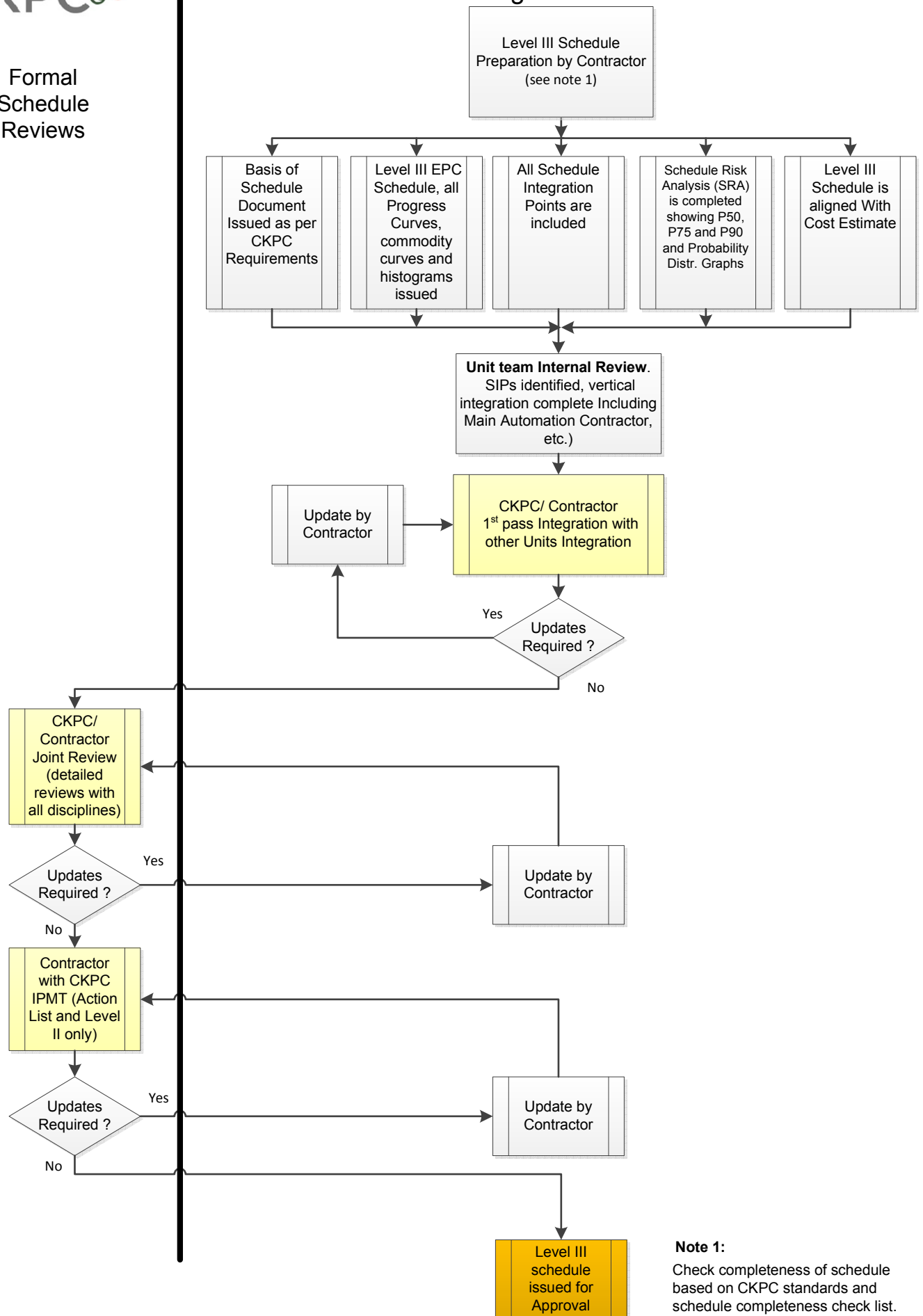


CKPC - EPC Level III Schedule Review Process Work Flow Diagram

Formal
Schedule
Reviews

Review 1:

Review 2:



Note 1:

Check completeness of schedule based on CKPC standards and schedule completeness check list.

❖ For complete list of deliverables and requirement, please see Basis of Schedule Template, Schdule Development & Control procedure and Schedule Activity ID and Coding Dictionary			Review Date:			
			❖ Description	Review & Check	Remarks	
Primavera specifications (as per CKPC0-GEN-0000-PC-PRO-00007 Schedule ID and Coding Dictionary)				"Enter Yes, No or NA"		
	Activity Coding Structure		The coding structure is as per Owner Standard			
	Activity Coding Assignment		All resource values are populated and assigned to tasks			
	Task Calendars		All calendars are as per Owner Standard (Engineering, Procurement, Construction)			
	Resources Coding Structure		Tthe Resource coding/ID structure is as per Owner Standard			
	Resources Assignment		The resources assignment is completed			
	Resources Calendars		The resource calendarsare created			
	Resources Calendars Assignment		The resource calendars are assigned			
	Activity ID Numbering		The activity IDs are as per Owner Standard			
	Schedule Breakdown Structure (SBS)		SBS is attached (as per Owner requirement)			
	No Summary bars or summary dates to be shown		Only LOE or WBS summary used			
	Schedule Report log:					
	All activities Shall have defined predecessors and successors Leads have adverse effects on the project total float, therefore impeding the ability to determine the true critical path Excessive lags shall be shown as task.		No loops			
			No hard constraints unless explained			
			No open ended activities			
			No leads or negative lags			
			No excessive lags			
			No out-of-sequence activities or milestones			
			No activities containing invalid relationships			
			Critical and Near-critical path(s) are identified and reported.			
			The criteria for critical path is 0≤TF≤15 days			
			The criteria for near-critical path is 15<TF≤30 days			
			Float Density or Schedule compression (FD) ≥ 0.20			
			No high or excessive float			
			No negative float			
			No SF relationships without explanation			
No false or excessive logic ties						
		Primavera WBS (blue boxes) were used for organizing activities for L1, L2 and L3				
Basis of Schedule Template (as per CKPC0-GEN-0000-PC-PRO-00006)						
	CONTRACTOR`S SCOPE OF WORK & EXECUTION PLAN					
		KEY MILESTONES TABLE AND DEFINITIONS	Milestone Table and definitions are included			
		LEVEL I SCHEDULE AND ALIGNMENT WITH PROGRAM MASTER PLAN	Level I schedule is included and is aligned with Owner Program Master Plan			
		LEVEL II SCHEDULE (ROLL-UP from Level III)	Is level II based on Owner template is attached			
		LEVEL III SCHEDULE	Is level III based on Owner template is attached			
		Unit WBS	Unit WBS is attached			
		SCHEDULE BREAKDOWN STRUCTURE (SBS)	SBS is attached			
		CODING STRUCTURE	Description of specific activity coding using by contractor is attached(In addition to Owner Coding)			
		RESOURCE CODING	Description of specific resource coding using by contractor is attached(In addition to Owner Coding)			
		SCHEDULE CALENDERS	All calenders that is used for development of schedule are listed			
	ASSUMPTIONS					
		GENERAL	All general assumptions are included			
		Key REVIEWS	All key reviews are described and included in the schedule			
		ENGINEERING				
			Process	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed		
			Mechanical	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed		
			Piping & Layout	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed		

❖ For complete list of deliverables and requirement, please see Basis of Schedule Template, Schdule Development & Control procedure and Schedule Activity ID and Coding Dictionary				Contract: _____			
				Review Date: _____			
				❖ Description	Review & Check	Remarks	
Primavera specifications (as per CKPC0-GEN-0000-PC-PRO-00007 Schedule ID and Coding Dictionary)					"Enter Yes, No or NA"		
			3D Model	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed			
			Civil and structural	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed			
			Buildings and architectural	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed			
			Control system	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed			
			Electrical, heat tracing and telecom	Key assumptions are included, list of deliverables included in the schedule, logics and duration are checked , Interim issues of deliverables are included as per rules of credits, resource loading is completed			
		PROCUREMENT					
			Long Lead and Critical Equipment	All Long Lead and Critical Equipment are included in the schedule The detail schdule inclueds procuremnet cycl for pre-award and post award activities (ie RFQ, Bidding, TBE, CBA, PO, vendor Dwgs Cat1, PO, vendor Dwgs Cat2, PO, vendor Dwgs Cat3, fabrication, ETA, delivery etc Post dilivery activities must be by EWPs			
			Non-Long Lead Equipment	All Non-Critical Equipment are included in the schedule The detail schdule inclueds procuremnet cycl for pre-award and post award activities (ie RFQ, Bidding, TBE, CBA, PO, vendor Dwgs Cat1, PO, vendor Dwgs Cat2, PO, vendor Dwgs Cat3, fabrication, ETA, delivery etc Post dilivery activities must be by EWPs			
			Bulk Material				
		WORK FACE PLANNING (WFP)			All Workface Planning time period requirements are included in the schedule		
		MODULARIZATION AND OFFSITE FABRICATION					
				Modularization strategy included			
				Module sequencing/priority list attached			
				Module list and key plan are attached			
		TRANSPORTATION & LOGISTICS			All module transportation and logistic plan are described		
			Histograms and curves from primavera	All nescessary production histograms and curves are attached			
		CONSTRUCTION					
			Construction Contracting Strategy	construction strategy is described			
			Construction Sequencing and priorities	All construction Sequencing and priorities are identified and included, necessary drqwings are attced			
			Productivity	Productivities are explained			
			Site hand over and construction completion plan	All construction site hand over are identified and included			
			Include man hours & quantity table showing all construction prime accounts				

	RESOURCE LOADING, S-CURVES, HISTOGRAMS AND COMMODITY CURVES					
		ENGINEERING MANHOURS/PROGRESS S-SURVES				
			Engineering Deliverable list	List of Deliverables including estimated hours issued and attached		
			Engineering progress S-Curves	All Engineering Progress S-Curves are issued (by Discipline) as per Owner template		
				All Engineering Histograms are issued (by Discipline) as per Owner template (Discipline and support hours separated)		
			Engineering Manpower Histograms	Included engineering manhours summary table for all deliverables and discipline and support hours (as per Class III Estimate)		
			Budgeted Man-hours	Are the Early/Late/Mid curves shown on the progress s-curves?		
			Engineering Progress Curves	overall Engineering progress (mid curve) peaks at:	7%	Pick from Drop Down
			What is percentage of the overall Engineering progrsss (mid-curve) when the 30% model review is completed?	Over 30%	Pick from Drop Down	
			What is percentage of the overall Engineering progrsss (mid-curve) when the 60% model review is completed?	Over 50%	Pick from Drop Down	
			What is percentage of the overall Engineering progrsss (mid-curve) when the 90% model review is completed?	Over 80%	Pick from Drop Down	

❖ For complete list of deliverables and requirement, please see Basis of Schedule Template, Schdule Development & Control procedure and Schedule Activity ID and Coding Dictionary				Review Date:					
				❖ Description	Review & Check	Remarks			
Primavera specifications (as per CKPC0-GEN-0000-PC-PRO-00007 Schedule ID and Coding Dictionary)					"Enter Yes, No or NA"				
		MODULE AND OFF-SITE FABRICATION							
			Module List	Including pipe rack modules,process modules,equipment modules,etc					
			Module program progress curves and histograms	Module steel fabrication production curve attached					
				Module Spool fabrication production curve attached					
				Module fabrication footprint (count per day) attached					
				Module Transportation (count per day) attached					
				Heavy Haul (count per day) attached					
				Module Setting /Heavy lifting (count per day) attached					
				Off-module steel fabrication production curve attached					
				Off-Module Spool fabrication production curve attached					
					DIRECT FIELD LABOUR AND QUANTITIES				
						Construction progress curves and manpower histograms	All quantities and field man-hours are included		
	Progress S-curves and commodity curves are included for all construction commodities listed below :								
	Site work(earth works)								
	U/G piping								
	Piling								
	Foundation and concrete								
	Steel Structure								
	Equipment Installation								
	Module Installation								
	Buildings								
	Piping Installation								
	Hydro-test								
	Electrical (Grounding)								
	Electrical (Cable trays/Conduit)								
	Electrical (Cable Runs and Terminations)								
	Electrical (Electrical Heat Tracing)								
	Instrumentation and controls								
	Protective Coatings								
	Scaffolding								
	Heavy lifting and crane usage								
	Condtruction equipment usage(ie man lift, 6 packs, etc)								
	Pre- commissioning (if applicable)								
	Commissioning (if applicable)								
	Total Budgeted hours and quantities are as per Class III Estimate								
	overall Construction progress for DFL (mid curve) peaks at:	7%				Pick from Drop Down			
	overall Construction progress for DFL (mid curve) during winter (Nov-Mar) peaks at:	5%				Pick from Drop Down			
	Labour Density Analysis and report	Labour Density Analysis is carried out and the report is included (Inside Buildings, other congested places)							
	INDIRECTS					All indirect man-hours are included			
	Manpower histograms					All indirect manpower histograms are included(based on Owner procedure)			
	OTHER CURVES					All production Curves and other curves as per Owner standards are issued			
		Production curves				showing Discipline EWP releases versus start of installation (per discipline) (Ex Piling EWP releases versus Piling installation curves)			
						P&ID production			
					Steel structure IFC production vs. Fabrication vs. Erection				
					Piping ISOs IFC production vs. Spool fabrication vs. module and/or field erection				
					Production Curves for RFI, RFQ, PO, Vendor data, ETA, Installation				
					Overall Engineering, Procurement, Construction S-Curves showing individual and overall (roll up scurves)				
SCHEDULE ANALYSIS									

