Milestone Checklist by Discipline										
			Const	ruction Field Rework: Total direct cost of redoi	ing work	in the field regardless of initiating cause or so Civit/Structural	urce			
Process Establish Process Design Basis		Mechanical Preliminary Equipment List - Issue for DBM		Piping Preliminary Plot Plan		Civil/Structural Verification of Site Selection		Instrumentation & Controls I&C Inputs for DBM - IFR		Electrical Electrical Infrastructure and Requirements Defined
Client business drivers identified		Historical mechanical data collected		Code and standards defined		Civilistructural design criteria defined		Client input about operations, control philosophy receive		Code and standards defined
Site data collected (elevations, temperatures)		Dimensions, weights rough sized in process engineering		Fire protection requirements defined		Modularization strategy defined		Control philosophy defined		Local site conditions and profiles received
Licensors identified	⊢	PFD's - IFR received		Building enclosure philosophy determined		Underground and above ground existing facilities identified		Preliminary Control system architecture issued		Preliminary horsepower data received
Feedstock information collected (composition, rate, etc.)		MSD's - IFR		Meteorological data received		identified  Meteorological (snow, winds, etc.) information compiled		Standards and specifications defined		Electrical power studies to define requirements
Pronoss desire relation identified	<u> </u>	Vendor packaged equipments identified		Existing facilities information collected		Topographical map compiled		Proliminary Control costom functional specification		Preliminary electrical equipment list
								defined		
Product information prepared		Critical/long delivery items identified		Historical plot plan data collected		Preliminary geotechnical report received		Control building preliminary sized		Electrical underground, aboveground, substation information defined
Sparing philosophy defined		Legal and regulatory requirements determined		Topographic information / coordinates (under/above ground) received		Land issues resolved		Preliminary PFD's received		Electrical design criteria defined
Environmental considerations identified				Spacing guidelines (installation, hazards, etc.) established		Regulatory issues (three level government, environmental, etc.)		Major equipment process datasheets received		
	-	Preliminary Equipment Pricing (Quotes)		PFD's IFA received		Site infrastructure information collected		Critical inline devices identified		Area Classification IFR
Process Flow Diagram - IFA		Functional mechanical specifications		Main piping tie-ins identified		Transportation/logistic issues information collected				PFD IFD received
Licensor information reviewed		Mechanical sparing philosophy defined		Equipment preliminary data received		Preliminary plot plan issued by plant layout (with civil/structure input)		Preliminary Instrument Index		Plot plan IFR received
Heat and material balance completed	-	Vendor list approved		Client operational input received				Instrument tagging procedure IFD		Process input to area classification received
Major equipment identified and preliminary sizing		Process data/rough equipment data sheets completed		Hazardous equipment location analysis completed		Civil Input for Plot Plan IFR		P&ID's IFD received		
Control philosophy decided (including DCS, PLC, etc.)		Critical equipments shop fabrication milestones identified		Civil structural input (dtches, roads, drainage, geotechnical, etc.)		Preliminary site grading		Inline devices data sheets IFR		Load List IFD
Material selection guidelines issued	<u> </u>			Electrical and instrumentation layout input received		Process input on fire water system and drainage		Area classifications IFR received		P&ID's IFD received, horsepower defined
Preliminary tie-in points identified	_	Equipment Data Sheets - IFQ/Equipment list - IFD		Client infrastructure requirements identified		received Fire water systems layout		Pipe specifications received		Equipment list IFD received
Preliminary utility balance		MDMT and other temperature design criteria defined	<u> </u>	Construction input received		Sewers/drainage systems layout		Process and equipment data received		Preliminary electrical vendor information
VIP review and simplification completed		MSD's - IFD		Logistics and shipping constraints study received		Major equipment preliminary size received		Control system I/O Index defined		Lighting load estimated
DDM/CCCO Ivons	$\Box$	PFD's - IFD received P&ID's - IFR received		Modularization strategy received	L	Specing guideline/codes received		Control system architecture developed		Heat tracing load estimated
DBM (FEED) Items	1					Main pipe racks preliminary sized		Shutdown key matrix (cause and effect) generated from index		Ax electrical loads defined
Winterization philosophy decided		Preliminary hydraulic calculations completed Plot plan - IFR received		Plot Plan - IFD		Prefirminary large bore pipe layout received		Packaged equipment instrument specifications issued		Steady Line Disasses IED
Start up/shutdown philosophy published Preliminary drivers identified	—	Plot plan - IFR received Sparing philosophy and spare parts defined	-	Field survey of geometer reference point received Main pipe racks sized	_	Lay down areas identified	-	Purchase Inline Devices		Single Line Diagrams IFD UPS requirements defined
Process data sheets finished	├	Area classification drawings - IFD received		Modularization execution plan (racks, etc.) established		Cable tray routing identified		Vendor list approved		Interfaces with power utility completed
Process hazard analysis completed		Modularization plan defined		Equipment data sheets (esp. compressors, pumps, etc.) received		Transportation, lifting and logistics issues defined		Process hydraulic calculations received		Plot plan IFR received
Process logic description finished	<u> </u>	Battery limit conditions defined		P&ID's IFR received				Piping specifications IFD received		Power generation philosophy defined
Preliminary material selection diagram issued		Specifications and standards issued	<u> </u>	Material selection diagram received		Civil Inputs for Plot Plan IFD		Final process data provided to instrument data sheets		Power system study (fault study, load flow, utility coordination) completed
Piping material classes published	├	Packaged equipment instrument specs issued		Piping studies for critical lines		Major buildings (size, location) finalized		Area classifications IFD received		Process reliability requirements defined
Stream information firm				Fire hazard areas defined		Major pipe racks and large bore piping design frozen (including stress design)		Client review and approval of datasheets		Redundancy requirements defined
Draft DBM for review		Environment - Issued For Purchase		Plot plan client review and approval		(including stress design) Underground scope, location and services identified		Bidder's specifications/vendor data IFD		Clart moration ranginaments defined (assistment
										Client operation requirements defined (equipment, voltage, above/below grade)
Client/operations input received		All equipment data sheets issued		P&ID's IFD received		Electrical underground, aboveground, substation information received				Construction power defined
Front-end PFD frozen		Vendor quotes (data, drawings) finished		All undergrounds received		Preliminary vendor data (major vessels, equipment) received		Control System Purchase		
Process Flow Diagram - IFD	├	Shop fabrication scheduled		Hydro test philosophy defined		Access / egress finalized and confirmed		I/O court / loop drawings IFD		Purchase Electrical Equipment
DBM document issued		Technical evaluations finalized		Major equipment coordinates frozen		Major cable routing frozen		Shutdown keys IFC		Modularization strategy defined
		Commercial review input (bid summaries,recommendations and client approval)				Major equipment coordinates received		Marshalling philosophy issued and approved		Electrical equipment data sheets IFD
P&ID's and UFD's - IFR		General arrangements - IFD		Plot Plan- IFC		Preliminary mechanical equipment loads (static and dynamic) and GA's received		Control system hardware footprint defined		Scope and specification finalized
Mechanical equipment identified and sized	_	Hydraulic calculations finalized	ļ	Final varidor dimensional data collected		Preliminary electrical equipment loads and GAs received		Panel layouts / termination drawings issued		Electrical bidders list approved
Discipline-specific specifications and standards publishe	-	Logistics input lifting, transportation, routing, receiving and storage		Building sizing and layout received		Preliminary piping drawings (rack, underground, stress) received				Electrical control schematics IFD
Battery limit tables finished	┢	Client operation and maintenance review		Final civil ,road and drainage drawing received		Pollution abatement (equipment and facilities) defined		Control Room Layout IFD		Electrical control philosophy issued
All te-ins identified		Commissioning support - review of spare parts, training process, and vendor support		Heat tracing LDT's IFD		Loading diagram defined				Mechanical vendor information/packaged equipment information received
Lines sized, specified	<u> </u>	process, and version appoin		Inline components defined				Instrument Index - IFC		Variable frequency drive requirements defined
Relief requirements identified		Vendor Certified Data		Large bore stress analysis completed		Rough Grading Plan IFC		Logic/control narratives received		Sparing philosophy finalized
Major instrument list commenced		Engineering review of vendor drawings finished		Large bore piping design and layout completed				FAT procedures and test plan defined		Vendor list approved
Major valves identified  Major control valves identified and sized	<u></u>	Client operations buy-in, vendor drawing review P&ID's IFC received		Utility piping definition completed Electrical single line IFD received		Deep Underground IFC		P&ID's IFC received		
Licensor P&ID reviewed								AUTOC		Area classification IFD
	-					Input to Plot Plan IFC		All ISC purchase orders issued		Cable and Tray Schedule IFC
Description and of without models in a first stand		Vendor operation and maintenance manuals completed		Electrical, I&C cable trays requirements and data received		Irput to Plot Plan IFC		All ISC purchase orders issued		Cable and Tray Schedule IFC
Pressure relief valves preliminarily sized HT&I requirements identified		Vendor operation and maintenance manuals completed Installation instructions completed		Electrical, ISC cable trays requirements and data received		Input to Plot Plan IFC		FAT		Cable and Tray Schedule IFC Cable tray routing/location defined
Pressure relief valves preliminarily sized HT&I requirements identified						Input to Piot Pian IFC  Piling IFC  Structural pipe rack model		All I&C purchase orders issued  FAT All graphics built Configuration completed		Cable and Tray Schedule IFC
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