

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
STEAM GENERATORS AND RELATED ACCESSORIES	
101	HEAT RECOVERY STEAM GENERATOR
102	BOILER (FIELD ERECTED)
103	BOILER CHEMICAL CLEANING / BOIL OUT / STEAM BLOW
110	SNCR/SCR
111	BYPASS STACK AND FLUE GAS DIVERTOR
120	AUXILIARY BOILER (PACKAGED BOILER)
130	DRY SCRUBBER
135	WET SCRUBBER
140	BAGHOUSE
145	PRECIPITATOR
150	FORCED DRAFT AND INDUCED DRAFT FANS
160	CHIMNEY (CONCRETE)
165	STACK (STEEL)
190	CONTINUOUS EMISSION MONITORING SYSTEM
HEAT CYCLE EQUIPMENT	
201	COMBUSTION TURBINE AND GENERATOR
202	STEAM TURBINE AND GENERATOR
205	GENERATOR HYDROGEN AND CO2 SYSTEMS
210	STEAM SURFACE CONDENSER
211	AIR COOLED CONDENSER
212	CONDENSER BALL CLEANING SYSTEM
213	AIR REMOVAL EQUIPMENT
213A	AIR CONDENSER PRIMING EXTRACTION
213B	VACUUM PRIMING
215	HEAT EXCHANGERS
215A	AUXILIARY COOLING WATER HEAT EXCHANGER
215B	BOILER BLOWDOWN HEAT EXCHANGER
220	DEAERATORS
222	CLOSED FEEDWATER HEATERS
225	COOLING TOWER
230	AIR COOLED HEAT EXCHANGERS
240	CYCLE PUMPS (BOILER FEED, CONDENSATE AND CIRC WATER)
240A	BOILER FEED PUMPS
240B	CONDENSATE PUMPS
240C	CIRCULATING WATER PUMPS
TURBINE AUXILIARY EQUIPMENT	
251	CT INLET AIR CHILLING SYSTEM
252	CT INLET AIR FOGGING SYSTEM

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SPECIFICATION NUMBER	DESCRIPTION
MATERIAL HANDLING SYSTEMS	
301	FUEL OIL CONTAINMENT AREA HDPE LINER
302	FUEL OIL LEAK DETECTION AND MONITORING SYSTEM
303	FUEL OIL HEATERS
303A	FUEL OIL HEATER - ELECTRIC
303B	FUEL OIL HEATER - SHELL AND TUBE
303C	FUEL OIL HEATER - DIRECT FIRED (GAS OR OIL)
303D	FUEL OIL TANK HEATER - ELECTRIC
303E	FUEL OIL TANK HEATER - STEAM
304	FUEL OIL PUMPING AND HANDLING SYSTEMS
306	FUEL OIL CLEANING SYSTEMS
306A	FUEL OIL FILTER SYSTEM
306B	FUEL OIL CENTRIFUGE SYSTEM
FUEL GAS	
310	FUEL GAS COMPRESSORS
312	FUEL GAS METERING AND REGULATION SYSTEM
313	FUEL GAS HEATERS
313A	FUEL GAS HEATER - ELECTRIC
313B	FUEL GAS HEATER - SHELL AND TUBE
313C	FUEL GAS HEATER - DIRECT FIRED (GAS OR OIL)
314	FUEL GAS COOLERS
314A	FUEL GAS COOLERS - FINFAN
314B	FUEL GAS COOLERS - SHELL AND TUBE
316	FUEL GAS CLEANING SYSTEMS
316A	FUEL GAS FILTER / SEPARATOR
318	FUEL GAS CHROMATOGRAPH
ASH HANDLING SYSTEM	
330	ASH HANDLING SYSTEM - FLY ASH
335	ASH HANDLING SYSTEM - BOTTOM ASH
COAL HANDLING SYSTEM	
340	COAL HANDLING SYSTEM
LIMESTONE	
350	LIMESTONE HANDLING SYSTEM
MATERIAL METERING SYSTEMS	
360	TRUCK SCALES
STORAGE SYSTEMS	
380	STORAGE SILOS / BINS

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SPECIFICATION NUMBER	DESCRIPTION
WATER TREATMENT AND CHEMICAL FEED SYSTEMS	
401	WATER TREATMENT
402	WATER PRETREATMENT SYSTEM
420	WATER SAMPLE ANALYSIS PANELS
430	CHEMICAL FEED SYSTEMS
430A	WATER TREATMENT CHEMICAL FEED SYSTEMS
430B	CIRCULATING WATER CHEMICAL FEED SYSTEMS
430C	WATER PRETREATMENT CHEMICAL FEED SYSTEMS
433	AQUEOUS AMMONIA STORAGE AND HANDLING SYSTEMS
435	ANHYDROUS AMMONIA STORAGE AND HANDLING SYSTEMS
437	UREA SYSTEM
440	WASTE WATER TREATMENT SYSTEMS
440A	PACKAGE SANITARY SEWAGE TREATMENT PLANT
440B	SEPTIC SYSTEM
441	OIL/WATER SEPARATOR
480	POTABLE WATER TREATMENT SYSTEM
BALANCE OF PLANT EQUIPMENT	
510	MECHANICAL HVAC AND PLUMBING SYSTEMS
510A	PLUMBING AND FIXTURES
510B	EXHAUST FANS
510C	AIR HANDLING UNITS
510D	ELECTRIC UNIT HEATERS
510E	GAS FIRED UNIT HEATERS
530	FIRE PROTECTION SYSTEMS
531	UNDERGROUND FIRE WATER LOOP
531A	FIRE HYDRANTS, POST INDICATING VALVES
535	FIRE PUMPS
540	COMPRESSED AIR SYSTEM
540A	PACKAGED AIR COMPRESSOR UNIT - OIL FLOODED
540B	PACKAGED AIR COMPRESSOR UNIT - OIL FREE
540C	DESICCANT AIR DRYER
540D	AIR RECEIVERS
TANKS	
550	FIELD ERECTED TANKS
551	SHOP FABRICATED TANKS
552	UNDERGROUND TANKS
MISCELLANEOUS PUMPS	
560	GENERAL SERVICE PUMPS-HORIZONTAL and VERTICAL TURBINE
560A	ANSI END SUCTION PUMPS
560B	HORIZONTAL SPLIT CASE PUMPS
560C	VERTICAL TURBINE PUMPS

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
561	GENERAL SERVICE PUMPS - SUBMERSIBLE
561A	SUBMERSIBLE PUMPS
561B	PLANT DRAINS LIFT STATIONS
561C	CANTILEVER PUMPS/AUX CIRC PUMPS
570	CHILLERS
PIPING AND RELATED MECHANICAL EQUIPMENT	
601	ALLOY PIPING PACKAGE
602	HIGH PRESSURE CARBON STEEL PIPING PACKAGE
603	GENERAL SERVICE PIPING PACKAGE
604	UNDERGROUND PIPING PACKAGE
605	FIELD PROCURED PIPING
606	CIRCULATING WATER PIPING
PIPE SUPPORT PACKAGES	
610	ENG. PIPE SUPPORTS (SPRINGS, SNUBBERS and CONSTANTS)
615	NON-ENG. PIPE SUPPORTS (RODS, CLAMPS, SHOES, SLIDES, etc.)
PIPING INSULATION AND FREEZE PROTECTION	
620	INSULATION AND LAGGING
625	HEAT TRACED INSTRUMENT TUBING AND INSTRUMENT ENCLOSURES
PIPING SPECIALTIES	
630A	AR - AIR RELEASE VALVES
630B	BF - BACKFLOW PREVENTOR
630C	BS - BASKET STRAINER
630D	DR - DAMPER
630E	EJ - EXPANSION JOINT
630F	EWS - EYEWASH / SAFETY SHOWER
630G	FD - FIRE HYDRANT
630H	FP - FIRE DEPARTMENT CONNECTION
630I	FH - FLEXIBLE HOSE
630J	HS - FIRE HOSE STATION
630K	IJ - INJECTION ELEMENT
630L	IS - ISOKINETIC SAMPLER
630M	RT - RESIN TRAP
630N	TR - TRAP
630O	TF - T-TYPE STRAINER
630P	UT - UTILITY STATION
630Q	YF - Y-TYPE STRAINER
630R	FA - FLAME ARRESTOR
630S	STF - STARTUP STRAINER
630T	WC - WASTE CONE
630U	PSV - PRESSURE SAFETY VALVES

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
640	CIRCULATING WATER INTAKE SCREENS
640A	TRAVELING WATER SCREENS
640B	TRASH RACK
650	STEAM SILENCERS
660	CATHODIC PROTECTION
660A	CATHODIC PROTECTION STUDY
VALVES	
680	POWER ASSISTED NON-RETURN CHECK VALVES
680A	COLD REHEAT NON-RETURN VALVE
680B	TURBINE EXTRACTION NON-RETURN VALVES
685	MOTOR OPERATED AND MANUAL VALVES
685A	HIGH PRESSURE LARGE BORE VALVES
685B	HIGH PRESSURE SMALL BORE VALVES
685C	LOW PRESSURE LARGE BORE VALVES
685D	GENERAL SERVICE BUTTERFLY VALVES (LESS THAN 24")
685E	LARGE BUTTERFLY VALVES (24" AND LARGER)
685F	LOW PRESSURE SMALL BORE VALVES
690	MECHANICAL STUDIES AND ANALYSIS
690A	SURGE ANALYSIS
690B	PROCESS DATA FOR CONTROL VALVES
696	MECHANICAL INSTALLATION SPECIFICATIONS
INSTRUMENT & CONTROLS	
711	TRANSMITTERS
712	SWITCHES
713	MEASURING ELEMENTS
713A	PRIMARY FLOW ELEMENTS
713B	FLOW ELEMENTS - ORIFICES
714	LOCAL CONTROLLERS, INDICATORS AND RECORDERS
715	CONVERTERS (FIELD OR PANEL MOUNT)
716	CONTROL VALVES AND INLINE CONTROL DEVICES
716A	STEAM BYPASS AND DESUPERHEATER VALVES
716B	CONTROL VALVES PACKAGE 1
716C	CONTROL VALVES PACKAGE 2
717	ANALYZERS
718	MISCELLANEOUS INSTRUMENTS
718C	INSTRUMENT RACK SUPPORTS
720	PANELS AND PANEL MOUNT EQUIPMENT
721	CONTROL PANELS
722	CONTROLLERS
723	RECORDERS AND INDICATORS
724	ANNUNCIATORS
725	ALARM SWITCHES

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
726	SELECTOR SWITCHES AND PUSHBUTTONS
750	I & C DOCUMENTS
751	INSTRUMENT INDEX
752	PROCESS DATA AND SUMMARY SHEETS
753	I/O LISTS
758	CONSTRUCTION AND STARTUP DOCUMENTS AND FORMS
760	I&C DRAWINGS
761	LOCATION PLAN DRAWINGS
762	I & C WIRING DRAWINGS
763	LOOP DRAWINGS
765	INSTRUMENT/CONTROL PANEL DRAWINGS
767	GROUNDING DETAIL DRAWINGS
768	INSTRUMENTATION INSTALLATION DRAWINGS
770	CONTROL SYSTEMS DOCUMENTATION
771	CONTROL PROSE WRITE-UPS
775	CONTROL SYSTEM DRAWINGS
780	COMPUTERS AND MICROPROCESSOR CONTROL SYSTEMS
781	DCS
782	PLC
783	DESKTOP COMPUTERS
784	FIBEROPTIC SYSTEMS
785	UTILITY RTU
790	I&C DEPARTMENT PROCEDURES AND STANDARDS
791	PROCEDURES
792	BASIC PRACTICES
793	BASIC STANDARDS
795	STANDARD DRAWING EXAMPLES
796	I&C INSTALLATION SPECIFICATIONS
799	DEVELOPMENT WORK
ELECTRICAL	
800	TRANSFORMERS
800A	GENERATOR STEP UP TRANSFORMERS
800B	UNIT AUXILIARY TRANSFORMERS
800C	STATION SERVICE TRANSFORMERS
805	ELECTRICAL COMMODITIES
806	CIRCUIT AND RACEWAY LISTING
820	SWITCHYARD CONTROL BUILDING
821	MOTOR CONTROL CENTERS
821A	4.16 KV MOTOR CONTROL CENTERS
821B	480 V MOTOR CONTROL CENTERS
822	VARIABLE FREQUENCY DRIVES
830	SWITCHGEAR
830A	13.8 KV SWITCHGEAR
830B	4.16KV SWITCHGEAR
830C	4.16KV SWITCHGEAR ENCLOSURE
831	480 VOLT SECONDARY UNIT SUBSTATION

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
834	SF 6 BREAKERS
835	GENERATOR CIRCUIT BREAKER
840	SUBSTATION
841	TRANSMISSION LINE
842	BUS DUCT
842A	ISO PHASE BUS DUCT
842B	NON SEGREGATED BUS DUCT
844	STG PT'S AND ENCLOSURE
845	HIGH VOLTAGE TAKE-OFF STRUCTURE
853	125V DC BATTERY
854	PLANT UPS
860	PLC PANEL AND REMOTE I/O CABINETS
862	RELAY PANEL
862A	RELAY COORDINATION STUDY
862B	RELAY SETTINGS
865	CABLE TRAY
866	PROTECTIVE RELAY/FIBER OPTIC LINK/MICROWAVE
868	GROUNDING
869	RACEWAY
869A	PREFABRICATED DUCT BANK MANHOLES
870	WIRE & CABLE
870A	MEDIUM VOLTAGE CABLE
870B	SINGLE CONDUCTOR 600V POWER CABLE
870C	CONTROL & INSTRUMENT CABLE
871	LIGHTING
872	HEAT TRACING
873	CCTV SYSTEM
875	PAD MOUNT TRANSFORMERS
876	PANELBOARDS
877	MOTOR STARTERS
878	CONTROL EQUIPMENT
879	MOTORS
880	ELECTRICAL STUDIES AND ANALYSIS
880A	DUCTBANK HEATING
880B	MANHOLE SIZING
880C	LOADFLOW STUDY
880D	SHORT CIRCUIT ANALYSIS
880E	MOTOR STARTING STUDY
880F	CABLE SIZING CALCULATIONS
880G	LIGHTING CALCULATIONS
880H	LIGHTNING PROTECTION STUDY
880I	BATTERY SIZING CALCULATION
880J	UPS SIZING CALCULATION
881	RTU
889	FAULT RECORDER
890	EMERGENCY GENERATOR
891	ELECTRICAL INTERCONNECTS

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
892	ELECTRICAL SCHEMATICS
896	ELECTRICAL INSTALLATION SPECIFICATIONS
CIVIL WORKS	
901	SITE WORK
901A	ROUGH GRADING
901B	FINISH GRADING
901C	AGGREGATES
902	ROADS
903	UTILITIES EXCAVATION AND BACKFILL
904	EVAPORATION POND AND POND LINER
905	SITE DRAINAGE
905A	STORM SEWERS
905B	RETENTION PONDS
906	DEMOLITION
907	FENCING
908	SANITARY SEWERS
FOUNDATIONS	
910A	COMBUSTION TURBINE FOUNDATION
910B	STEAM TURBINE FOUNDATION
910C	COOLING TOWER BASIN
910D	GAS COMPRESSOR FOUNDATION
910E	INTAKE STRUCTURE
910F	OUTFALL STRUCTURE
910G	TRANSFORMER FOUNDATION
910H	PIPE RACK AND SUPPORT
910I	CABLE TRAY
910J	EMERGENCY GENERATOR
910K	AIR COOLED CONDENSER
910L	SWITCHYARD
910M	FIRE WATER PUMPS
910N	AUXILIARY COOLING WATER HEAT EXCHANGERS
910O	HRSG
910P	STACK
910Q	FIELD ERECTED TANKS
910R	MISC. FOUNDATIONS
910S	INLET FILTER FOUNDATION
910T	AUXILIARY BOILER FOUNDATION
910U	MISC. PUMPS
911A	WATER TREATMENT BUILDING FOUNDATION
911B	ADMINISTRATION BUILDING FOUNDATION
911C	WORKSHOP BUILDING
911D	STORAGE BUILDING
911E	COMPRESSOR BUILDING FOUNDATION
911F	INSTRUMENT/SAMPLING BUILDING FOUNDATION
912	PILING

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
912A	DRIVEN PILES
912B	DRILLED PILES
912C	AUGER-CAST PILES
CONCRETE	
931	CONCRETE REINFORCEMENT
932	ANCHOR BOLTS
933	PRECAST CONCRETE
934	CONCRETE DUCTBANKS
935	MASONRY
936	CEMENTIOUS GROUTING (NON-METALLIC)
937	EPOXY GROUTING
938	CEMENTIOUS GROUTING (METALLIC)
940	STRUCTURAL STEEL
940A	PIPE RACK
940B	BOILER BUILDING
940C	CABLE TRAY SUPPORTS
941	MISCELLANEOUS STEEL
941A	STAIRS
941B	HANDRAIL AND KICKPLATE
941C	GRATING & STAIR TREADS
941D	EMBEDMENTS
941E	PLATFORMS
941F	LADDERS
941J	MISC. PIPE SUPPORTS
942	STEEL FLOOR DECKING
943	STEEL ROOF DECKING
945	STRUCTURAL STEEL ERECTION
946	STRUCTURAL STEEL FABRICATION
947	STEEL JOISTS
CRANES AND HOISTS	
951	OVERHEAD BRIDGE CRANE
952	JIB CRANE
953	ELEVATOR
954	MONORAILS AND HOISTS
PANELS	
961	METAL WALL PANEL
962	EXPLOSION PANELS
963	ROOFING
965	ACOUSTIC WALL PANEL
ARCHITECTURAL FINISHES	
971	DOORS AND HARDWARE
972	WINDOWS
973	FLOORING/CARPETING

VENDOR EQUIPMENT LIST

SPECIFICATION NUMBER	DESCRIPTION
974	WALL COVERING
975	FURNITURE
PAINTING AND COATINGS	
980A	STRUCTURAL STEEL
980B	HRSG
980C	STACKS
980D	TANKS
981	CONCRETE PROTECTIVE COATINGS
PRE-ENGINEERED BUILDINGS	
990A	ADMINISTRATION BUILDING
990B	WATER TREATMENT BUILDING
990C	GAS COMPRESSOR BUILDING
990D	CEMS / SAMPLING BUILDING
991	NON PRE-ENGINEERED BUILDING
996	CIVIL/STRUCTURAL INSTALLATION SPECIFICATIONS