

APPENDIX B
APPROVED VENDORS LIST

Approved Vendors List

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Steam Turbine	<i>Toshiba (TBD)</i> GE Mitsubishi Siemens Alstom
Combined Main Stop and Control Valve/Actuator	Rexroth
Combined Reheat Valve Actuator	Rexroth
Gland Steam Condenser	Southern Heat Exchanger ITT Industries Struthers Industries Krueger Engineering & Mfg. Co.
Gland Steam Exhauster	Gardner Denver The New York Blower Co. Chicago Blower Co. or Equivalent
Main Oil Cooler	Tranter PHE (E) Southern Heat Exchanger ITT Industries GEA Ecoflex (E) Alfa Laval
Oil Conditioner	Kaydon TORE
Oil Mist Eliminator	Burgess-Miura Co. (E) Koch-Otto York
Actuator	Limitorque - Preferred Rotork
Steam Turbine Generator	GE Siemens Alstom <i>Toshiba (TBD)</i>
Turbine Supervisory Instrumentation Unit	Bently Nevada
Position Switch	Namco Co.
Position Transmitter	M-System
Flow Indicator	Yokogawa Electric Co.
Purity Analyser	Yokogawa PacifiCorp Standard
Solenoid Valve	Asco, Co.
Positioner	Fisher Co.
Instrument Valve	Swagelok, Co. - Preferred Whitey Co. - Preferred Valves
Instrument Fittings	Swagelok, Co. - Preferred Whitley Co.
Control Valve	Fisher Co. - Preferred
I/P Converter	Yokogawa
Instrument Rack/Generator	E-One - PacifiCorp Standard
Seal Oil Gauge Panel	E-One - PacifiCorp Standard
Hydrogen Gas Measuring Rack	E-One - PacifiCorp Standard
Generator Condition Monitor	E-One, GCMX - PacifiCorp Standard
H2 Gas Dryer	LectroDryer
Combustion Turbine (GE Siemens
Generator	GE Siemens
Cooling Tower	SPX (Marley) GEA Midwest Towers, Inc International Cooling Tower

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
HRSGs	Deltak Corporation Nooter/Ericksen Vogt Power Alstom
HRSG Duct Burners	Coen Forney John Zink
SCR and CO Systems	Peerless Mfg. Hitachi Vector
SCR Catalyst	Cormetech Hitachi (aka BHK) Argillon (formerly Siemens)
CO Catalyst	Engelhard EmeraChem
Auxiliary Boiler	Babcock & Wilcox Nebraska
Boiler Feed Pumps and Motors	KSB, Inc. - Preferred Sulzer Pumps Weir Pumps Ltd.
Condensate Pumps and Motors	Flowserve Johnston Pump Company Weir Pump Company Sulzer Pumps Goulds Pumps KSB
Circulating Water Pumps and Motors	Flowserve Johnston Pumps Weir Pump Company Sulzer Pumps Goulds Pumps
Condenser, Wet Surface	Alstom Graham TEI Yuba Holtec International SPX (Marley)
Condenser, Air Cooled (ACC)	SPX (Marley) GEA
Heat Exchangers, Plate & Frame	Alfa Laval APV Graham Tranter
Water Treatment Systems (Demin)	Graver Water Co. Hungerford & Terry, Inc. US Filter GE Water Technologies (Glegg) Water and Power Technologies Ecolochem
Oil Water Separators	Anderson Great Lakes Environmental Highland Tank PS International (E)
Air Compressors	Atlas Copco – Preferred Ingersoll Rand Gardner Denver Sullair Cooper/Joy Industries Dresser

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Air Dryers	Kemp Atlas Copco - Preferred Ingersoll Rand Pneumatic Productions Corporation Sullair GDI Deltech
Fuel Gas Treatment	Anderson Separator/Clark Reliance/National Filtration Burgess Manning Flowtronex Gas Packagers GTS Energy Hanover Smith Oil & Gas Systems Peerless Total Energy Resources Tran-Am Universal Compressors
Miscellaneous Horizontal Pumps	Aurora Pumps Flowserve Goulds Pumps Peerless Aurora Sulzer Johnston KSB
Pumps, Vertical	Aurora Pumps Goulds Pumps Flowserve Johnston
Vacuum Pumps	Graham Manufacturing Nash Nitech
Sump Pumps (Submersible)	Aurora Pumps Flygt Corporation Warman Nagel Goulds Flowserve Johnston Pumps
Pumps, Fire Water	Peerless ITT Allis Chalmers Pump Aurora Pumps Fairbanks Morse
Steam Conditioning Valves (attemporators)	CCI Emerson/Fisher-Rosemount Con-Tek
Fire Protection System	F. E. Moran Delta Fire Protection – Salt Lake City -Preferred Grinnell Fire Protection McDaniel Fire System Shambaugh S&S Sprinkler Dooley Tackaberry Securiplex International Fire Protection
GSU Transformers and Unit Auxiliary Transformers	ABB Alstom GE/Prolec - Preferred VA Tech Waukesha – Preferred

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Switchgear	GE – Preferred 4160V Square D – Preferred 480V Powell (Only if part of package) Cutler-Hammer – 4160V and 480V
Motor Control Centers	Powell (Only if part of package) Allen Bradley – Preferred for 480V MCC, 4160V MCC Cutler-Hammer – Preferred for 480V MCC, 4160V MCC
Variable Frequency Drives	Allen-Bradley Safronics Cutler-Hammer Danfoss
Isolated Phase Bus Duct	ABB Calvert Delta-Unibus - Preferred GE Canada - Preferred Hitachi
Non Segregated Phase Duct	Calvert Square D Delta-Unibus - Preferred Powell - Preferred
Power Control and Instrumentation Cables	BICC Rockbestos Supernaut Tamaqua Pirelli Okonite - Preferred Furon/Dekoron Rome Southwire - Preferred Belden – Communication Cable Preferred Kerite
High and Medium Voltage Cable	Pirelli Okonite - Preferred Rome Kerite
Distributed Control System	Emerson Ovation - PacifiCorp Standard
Continuous Emissions Monitoring System	KVB Enertec DAHS Software; and PacifiCorp specified instruments – PacifiCorp Standard
Chemical Feed Systems	Liquitech, Inc. Neptune JCI Wadsworth Pumps Flowtronex Milton Roy/LMI or Micro Pump – Preferred Nalco Johnson March Systems, Inc. Sentry Equipment
Water Sample Panel	Delphi Control Systems Johnson March Systems Sentry Equipment Corp. Waters Equipment Co.
Instrumentation Analytical Measurements	
Chromatographs	ABB Daniel (Natural Gas) EG&G Rosemount
Conductivity	Yokogawa – PacifiCorp Standard
Oxygen	Orbisphere/Hach or Yokogawa – PacifiCorp Standard
Silica	Hach – PacifiCorp Standard
Sodium	Orion – PacifiCorp Standard

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
pH Probe	Yokogawa – PacifiCorp Standard
Vibration	Bentley Nevada – PacifiCorp Standard
Chlorinators	Advance Capital Controls Fischer & Porter Wallace & Tieman
Computers (Flow)	Daniel Omni Fisher
Controllers, Field Mounted, Pneumatic	Fisher
Flame Supervisory Systems	Fireye Forney Honeywell Allen Bradley Iris (E)
Indicators Manometers	Dwyer – preferred Meriam
Indicators Press/Receiver Gauge	Ashcroft – Preferred (Except in the case of pre-packaged equipment)
PLC	Allen Bradley - PacifiCorp Standard (Except in the case of pre-packaged equipment) Control Logix or SLC 5/05 (Ethernet Version)
Transmitters, Electronic	
Differential Pressure	Rosemount - PacifiCorp Standard (Except in the case of pre-packaged equipment)
Level Measurement	
Capacitance, Etc.	Drexelbrook Fisher
Displacement	Fisher
Process Radar	Rosemount Ohmart-Vega
Custody Transfer/Radar/Displacement	Enraf Saab
Radioactive	Kay-Ray Ohmart-Vega Texas Nuclear
Ultrasonic	Endress & Hauser Inc. Kistler Morse Magnetrol Millitronics
TDR	Magnetrol Rosemount – preferred
Magnetic Flow	Rosemount – preferred
Mass Flow	ABB/Bailey Rosemount – preferred
Pressure	Foxboro Honeywell Yokogawa Rosemount – preferred
Target Meter	Foxboro Hersey Measurement
Temperature	Foxboro Moore Industries Fisher-Rosemount – preferred Honeywell Yokogawa
Turbine	Daniel Foxboro

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Transmitters, Pneumatic	
Differential Pressure	Fisher – preferred
Level Displacement	Fisher Magnetrol
Pressure	Fisher Foxboro
Target Meter	Foxboro
Temperature	Fisher-Rosemount Foxboro
UPS	Best SCI
Valves and Regulators	
Actuators, Diaphragm	Fisher – PacifiCorp Standard (Except in the case of pre-packaged equipment)
Actuators, Piston	Automax Bettis Contromatics George-Fischer Hills-MC Canna Neles-Jamesbury Posacon Valtek Vanton Whitey XACT
Control Valves – ON/OFF or Throttling Ball	Fisher – preferred Atwood & Morrill (E) Copes Vulcan Masonellan Neles-Jamesbury TYCO (E) Valve Technologies Watts WKM
Positioners, Electric	Limitorque, MX – Preferred Fisher-Rosemount Auma
Butterfly/ECC Disk	AMRI Continental Durco Fisher-Rosemount Masonellan Moisten Neles-Jamesbury Valtek
Valves, Butterfly <24-inch	Bray Valves & Controls Dezurik Flowseal Henry Pratt Co. Jamesbury Keystone Valve KSB-AMRI
Valves, Butterfly >24-inch	Atwood & Morrill Dezurik Flowseal Grinnell Corp. Henry Pratt Co. Keystone Valve Watts

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Valves, Globe	Atwood & Morrill Edwards Newco Valves Pacific Valves Whitey Yarway
Valves, Cast Steel	Atwood & Morrill Crane Edwards Pacific Valves Tyco Velan Valve Co. WM Powell Co.
Control Valves, Severe Duty, (Bypass, Recirculation, Drum level control, ACC spargers)	CCI – PacifiCorp Standard
Valves, Forged Steel	Edwards Valves, Inc. Conval, Inc. Dresser Industrial Valve Yarway Velan Valve Corp Vog Newco Bonney Forge
Valves, High Pressure	Atwood & Morrill Crane Edwards Pacific Valves Tyco Velan Valve Co.
Valves, Knifegate	Warman Dezurik Newcon Clarkson
Valves, Check	APCO Crane Edward Valves Pacific Valves Stockham Valves & Fittings Yarway/Tyco
Globe / Cage (No Split Body) 300#	Collins Instrument (Plastic) Fisher Masoneilan Samson Valke Control Component, Inc. (CCI)
Miniature / Special	Collins Instrument Research Controls Whitey
Pinch, Weir, Diaphragm	ASAHI Fisher-Rosemount Grinnell Red Valve RKL
Plug	Durco Tufline
Regulators	Air Service Fisher-Rosemount Process Service Cashco

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
Strainers, Automatic Flushing	Hayward Strainers Hellan SP Kinney Engineers
Valves, Ball	ITT Engineered Valves Mogas Neles Jamesbury NIBCO, Inc Stockham Valves & Fittings Whitey
Relief or Safety Valves	Consolidated – PacifiCorp Standard for Steam Service Crosby Ferris Dresser
Installation Hardware	
Boxes or Cabinets – Instrument and Junctions Metal	Appleton Hoffman – preferred
Boxes or Cabinets – Instrument and Junctions Fiberglass or Plastic	Hoffman – preferred Stahlin
Cable Tray and Tubing Support Tray Metal	B-Line OBO Betterman PW
Cable Tray and Tubing Support Tray Nonmetallic	Channel Way Enduro Fibergrate Seagate Stahlin
Instrument Manifolds and Valving Assemblies	Anderson Greenwood PGI Rosemount
Tubing Metal	Dekoron Thermoelectric
Tubing NonMetallic	Dekoron Thermoelectric
Fittings (Compression) Metal	Gyrolok Swagelok – Preferred
Fittings (Compression) Non-metallic	JACO (Kynar)
Fittings (Compression) Valves, Metal	Anderson Greenwood Hoke PGI Whitey - Preferred
Wire Signal	Alpha Belden Dekoron
Wire Thermocouple	Dekoron
Other	
Expansion Joints	Bachmann Industries Effox Pathway Wahlco Engineered Products
Fluid Couplings	Voith
Pipe, Circulating Water	Ameron La Barge Pipe McAbee Construction Northwest Pipe Company Dixie Southern
Pipe, Fabricated LP	Bendtec International Piping Systems McAbee Construction Team Industries

Equipment / Construction Package	Approved Subcontractors / Equipment Suppliers
	Scott Process
Pipe, Supports	Froneck Lisega Bergen PTP
Tanks, Field Erected	CBI Columbian Tank Matrix Pittsburgh Tank Fisher Tank HMT, Inc
Tanks, Shop Fabricated	Arrow Tanks Eaton Modern Welding Palmer Dixie Southern
Equipment/Construction Package	Approved Subcontractors
Fittings (Compression) Metal	Gyrolok Swagelok- preferred Nonmetallic JACO (Kynar)
Fittings (Compression) Valves, Metal	Anderson Greenwood Hoke PGI Whitey - preferred
Tubing NonMetallic	Dekoron Thermoelectric
Wire Signal	Alpha Belden Dekoron
Wire Thermocouple	Dekoron
Protective Relaying Devices and Systems	Schweitzer Engineering Labs, Inc.300 Series - Preferred
Lockout Relays	Electroswitch - PacifiCorp Standard
Test Switches	ABB - Preferred States
Revenue Meters	Landis & Gyr 2510 - PacifiCorp Standard