



PACKAGED SYSTEM SOLUTIONS

Tundra Process Solutions provides integrated solutions for the industrial marketplace. Tundra's technical and project management teams work with clients to oversee engineering, design, and project execution. Tundra offers both standardized and custom equipment packages.



Why Choose Tundra?

Tundra Process Solutions provides custom engineered solutions including prefabricated process package equipment skids, buildings and assemblies.

In-house engineers and project managers work with clients to oversee engineering, design and project execution. Tundra offers both standard packages from established offerings and custom equipment packages.

Optimized Integration - Tundra Process Solutions provides custom solutions including pre-fabricated process package equipment skids, buildings and assemblies. In-house engineers and project managers work with clients to oversee engineering, design and project execution. Tundra offers both standardized equipment packages and custom equipment packages.

- ▶ Tundra leverages exclusive relationships with manufacturing partners to develop and standardize process and electrical packages for best price, availability and service (24/7).
- ▶ Tundra provides in-house project and engineering oversight.
- ▶ Tundra provides review and analysis of existing systems to offer refined, cost-optimized alternatives that leverage Tundra's volume-basis and design history.

- ▶ Client-specified component options are available.
- ▶ Tundra recognizes that while client-needs are unique, a standard base design often exists. Standardized package availability includes:
 - ▶ Electrical buildings
 - ▶ Custody transfer packages
 - ▶ Process and Metering skids
 - ▶ Truck and rail loading
 - ▶ Quality systems including Chromatograph packages, Auto-samplers, Quality buildings (density, proving).

Packaged System Solutions



TRUCK AND RAIL LOADING/OFFLOADING & CUSTODY TRANSFER

- ▶ Complete package solutions with combined building and process skids.
- ▶ Packages for a range of process conditions & equipment sized for each application.
- ▶ Designed and supplied to minimize field work with respect to connections, terminations and installation.

PROCESS SKIDS

- ▶ Integrated systems based on standard process train sizes.
- ▶ Designed and supplied to minimize field work with respect to connections, terminations and installation.
- ▶ Process control, monitoring and reporting systems where required.
- ▶ Design standardization for improved quality, process efficiency and deliverability.



SAMPLING/QUALITY PACKAGES

- ▶ Custom sampling integration (client-selected).
- ▶ Fully engineered, procured, fabricated and delivered to site.
- ▶ Includes pressure piping, instrumentation and pumps.
- ▶ Buildings include HVAC systems and area-specific safety systems.

METERING SYSTEMS

- ▶ Sized for system flows (iterative design with client oversight) from standard meter run offerings.
- ▶ Fully engineered, procured, fabricated and delivered to site.
- ▶ Includes auxiliaries such as module lighting, insulation, EHT, local panels and accessories.





BUILDINGS

Tundra offers a full range of turn-key buildings, packages and accessories that can be custom designed to meet your needs.

- ▶ Variable Speed Drive buildings
- ▶ Electrical Services buildings
- ▶ Electrical Switchgear buildings
- ▶ MCC/ARC Resistant Switchgear buildings
- ▶ Generator buildings
- ▶ Main Block Valve buildings
- ▶ Custom Hybrid Combination buildings.

Project Execution & Management

- ▶ Dedicated Project Manager through design, construction and delivery.
- ▶ Project tracking.
- ▶ Status reporting.
- ▶ Weekly and bi-weekly project coordination meetings.
- ▶ On-site construction management.
- ▶ Management of change requests.
- ▶ Risk Management.
- ▶ In-house document control.
- ▶ Witness inspection and testing services.
- ▶ Preservation and storage plans.
- ▶ Certified factory-trained technicians available 24/7.

PANELS



- ▶ Electric Submersible Pump (ESP)
- ▶ Custom Panel Solutions
- ▶ Low Harmonic
- ▶ RTU Panel
- ▶ Communication, Controls & Marshalling Panels
- ▶ Screw Pump (PCP) & Pump Jack (PJP)

EXCLUSIVE PARTNERS AND PREFERRED PACKAGE SUPPLIERS

 <p>Channel Partner GE Oil & Gas</p> <p>Ultrasonic Flare Meters & Ultrasonic Gas/Liquid Process Meters</p>	 <p>Coriolis Mass Flow Meters, Differential Pressure Products, Electromagnetic Flow Meters, Variable Area Flow Meters, Vortex & Swirl Flow Meters</p>	 <p>Low & Medium Voltage Motors, Adjustable Low & Medium Voltage Speed Drives, Stand-Alone Rig Drive, Power Apparatus & Components, Tundra Integrated Solutions</p>	 <p>Boiler Solutions, Packaged Burner Systems and Controls</p>	 <p>Severe Service Control Valves & DRAG Technology, Choke, Desuperheating, Bypass, Boiler Feedwater</p>
 <p>Pre-Insulated, Heat-Traced Tubing Bundles, Winterization Enclosures & Instrument Stands</p>	 <p>Process, Steam & Specialty Relief Valves, Pressure Relief System Design & Audit</p>	 <p>Comprehensive Water & Wastewater Solutions, Unique De-oiling Technologies, Evaporation & Crystallization Technology, Advanced Filtration Treatment Solutions, Full Service Water Management Solutions</p>	 <p>High Performance ON/OFF Soft & Metal Seated, Rotary Control, Cageball</p>	 <p>General Purpose Control Valves</p>
 <p>Rental Boilers & Equipment</p>	 <p>Flow Computers, Chromatographs, Magnetic Level Guages, Radar, Magnetostrictive & Laser Level Transmitters, Thermal Dispersion & Vibrating Fork Point Level Switches, Differential Pressure & Totalflow LevelMaster</p>	 <p>Pressure Vacuum Relief Valves & Flame Arrestors</p>	 <p>Municipal Valves for Water Treatment and Distribution</p>	 <p>Positioning & Position Monitoring Devices</p>
 <p>Canadian Industry Approved Liquid and Gas Flow Computers & Measurement Automation Software</p>	 <p>Multiphase Meters, Slug Detection & Control</p>	 <p>Silencers, Resistors & Pulsation Dampeners</p>	 <p>Forged Gate, Globe, Dual Plate Check, Check, Ball Valves & Through Conduit Gate Valves</p>	 <p>Electric Actuation Solutions for all Applications</p>
 <p>Innovative "V-Cone" & "Wafer Cone" Flow Meters</p>	 <p>Industrial Valves and Automation Solutions</p>	 <p>CSA/CGA Valves for Gas & Liquid Shutoff, API Approved</p>	 <p>Triple Offset Metal Seated Process Butterfly Valves, Dual Disc Check Valves</p>	 <p>Pneumatic, Hydraulic & Electro-Hydraulic Actuators & Control Systems</p>
 <p>Rupture Discs</p>	 <p>High Efficiency Steam Traps, Pump-Traps, & Prefabricated Condensate Drainage Packages</p>	 <p>Pressure Regulators, Dump & Control Valves, Liquid Level Controller & Switches</p>	 <p>Thermal Mass Flow Meters</p>	 <p>Stacks, Chimneys</p>
 <p>Solenoid Valves, Filter Regulators & Quick Exhaust Valves</p>	 <p>Fixed Gas & Flame Detection, Turnkey Integrated PLC based Monitoring & Control Solutions</p>	 <p>Combustible & Toxic Gas Detection, Flame Detection, Ultrasonic Gas Leak Detection, Control Systems</p>	 <p>Combustible & Toxic Gas Detection, Enhanced Laser Diode Spectroscopy (ELDS) Open-path Laser-based Detection</p>	

Our factory-trained Service Technician Team are here 24/7- 365 days a year to service all of your current and future needs. Tundra's Service Department will ensure your equipment is running efficiently, effectively and at full production level. We know unscheduled outages can cost upwards of 15 times more than scheduled downtime, we are here to reduce interruptions and manage capital cost planning. With our industry knowledge, experience and guaranteed same day response time we are always here to help.



24/7
SERVICES



EMERGENCY
RESPONSE



CUSTOM
PACKAGES/
SOLUTIONS

Tundra Service & Support

Tundra Process Solutions will supply full-scope project execution, including all project deliverables.

BIDS

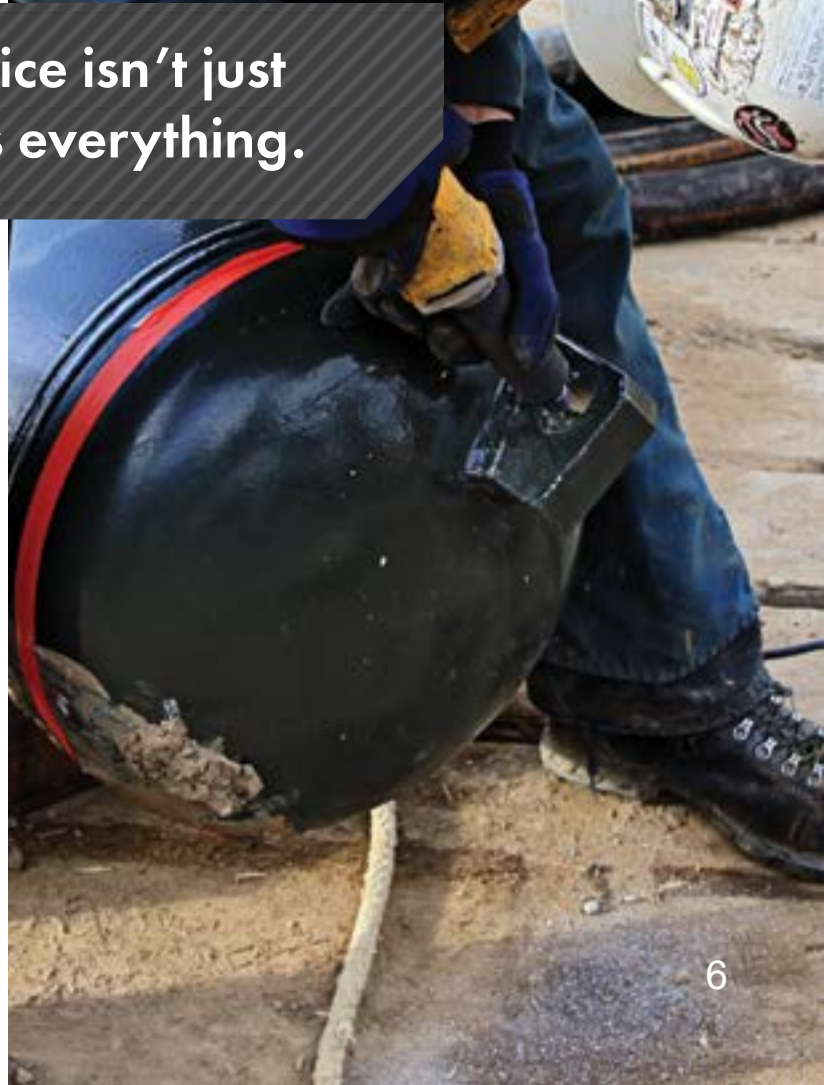
- ▶ Specification review and clarification.
- ▶ Commitment on VDR.
- ▶ Commitment on ITP.
- ▶ Level 1 Milestone schedule (or better).
- ▶ Model shots and technical documents (if not provided by client).
- ▶ Commercial terms.



We believe, Service isn't just another thing. It's everything.

PROJECT PACKAGES

- ▶ Complete engineering documentation.
- ▶ Project schedules and execution plan (where applicable).
- ▶ Complete VDR and ITP scope of supply.
- ▶ Complete QA documentation including ASME documents and permit schedules.
- ▶ Final Manufacturing Record Books (MRB).
- ▶ Operating and capital spares packages.



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