



Date of Board Meeting: August 18, 2026

Subject: Purchase training systems for the Bay City Nuclear Power Technology Program as part of the Nuclear Power Technology Program Expansion.

Recommendation: Approve \$637,260 for the purchase of training systems from Advanced Technology Consultants for the Bay City Nuclear Power Technology Program

Background and Rationale:

On March 24, 2026, the Board approved the Nuclear Power Technology Program Expansion, authorizing the College administration to execute purchases, contracts, and related agreements necessary to implement the Bay City Nuclear Power Technology Program using the special state appropriated funds. The proposed purchase of training systems for the Bay City Nuclear Power Technology program from Advanced Technology Consultants (ATC), in the amount of \$637,260, exceeds this threshold. Accordingly, this request is presented for Board approval in accordance with the Board's prior authorization and purchasing policies.

The Instrumentation & Process Control Training System 3500 Series and the Neutralization Tank Process Training System will outfit the instructional spaces supporting the Nuclear Program expansion, providing students with hands-on training resources that reflect current industry standards and support the workforce training objectives of the Nuclear Power Technology Program Expansion.

The College will utilize Advanced Technology Consultants (ATC), an awarded vendor under SETX Purchasing Coop Contract #20260302, for this purchase. Use of this cooperative purchasing contract satisfies the competitive procurement requirements of Texas Education Code §44.031, which authorizes governmental entities, including community colleges, to procure goods and services through approved cooperative purchasing programs.

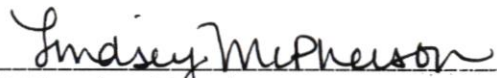
Budgetary Implications: \$637,260 (Special State Appropriations, Nuclear Program Expansion)

Strategic Priority Alignment:

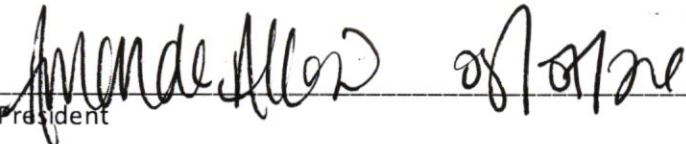
☒ Student Success	☐ Community Impact
☒ Resource Optimization	☒ Institutional Excellence

Resource Personnel: Kimberly Ashburn, Director of Continuing Education
Lindsey McPherson, Associate VP of Academic Affairs

Approval:



Cabinet-Level Member



President



advanced technologies consultants

powered by METEOR EDUCATION

Quote

Prices valid for 60 days

44800 Helm St.

Plymouth, MI 48170

800-348-8447 | www.atctrain.com

Presented to: Brian Troquille
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5/22/26
Aaron Bloss
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Terms	Project	Delivery	FOB Point
Net 30	Lab-Volt Instrumentation and Process Control	est. 120 Days ARO	Lab Volt

v.12/15/2025

Item#	Qty	Description	SAP #	Part#	Unit Cost	Extended
1	1	Pressure/Flow/Level Process	582464	3531-A0	\$92,044.00	\$92,044.00
		<i>Includes:</i>				
		Emergency Switch Station	582352	5926-A0		
		Digital Pressure Gauge (High Range)	582387	46761-B0		
		Process Workstation	582390	46801-F0		
		Instrumentation Workstation	582393	46900-F0		
		Column (Large Diameter)	582394	46901		
		Rotameter	582402	46910		
		Venturi Tube	582403	46911		
		Differential-Pressure Transmitter (High Range)	582408	46920		
		Differential-Pressure Transmitter (Low Range)	582410	46921		
		Pneumatic Control Valve	582424	46950-B0		
		Solenoid Valve	582426	46951		
		Electrical Unit		46970-B0		
		Pneumatic Unit	582433	46971-A0		
		Color Paperless Recorder	582434	46972		
		AC Drive (Ethernet)	582436	46975-A0		
		Instrumentation Mounting Pipe	582444	46990		
		Process Supports	582445	46991-C0		
		Drip Tray (Front)	582447	46992-B0		
		Piping and Accessories		46993-E0		
2	1	Basic Temperature Process-Add-On	582470	3531-C0	\$105,925.00	\$105,925.00
		<i>Includes:</i>				
		Pumps Add-On	582396	46904-A0		
		Pumping Unit Add-On	582398	46904-B0		
		Brazed Plate Heat Exchanger	582400	46905		
		Heating/Cooling Unit	763447	46908		
		J-Type Thermocouple	582406	46916		
		Platinum RTD 100	582407	46917		
		Temperature Transmitter	582422	46940		
		Three-Way Pneumatic Control Valve	582430	46955-B0		
		AC Drive (Ethernet)	582440	46975-C0		
		(2) AC Drive	582442	46975-D0		
		Drip Tray (Back)	582448	46992-C0		
		Piping and Accessories	582452	46993-J0		

		Electrical Distribution Box	582453	46997		
3	1	Pressure/Flow/Level Process-Second Team Add-On	588488	3530-K0	\$59,272.00	\$59,272.00
		<i>Includes:</i>				
		Digital Pressure Gauge (High Range)	582387	46761-B0		
		Column (Large Diameter)	582394	46901		
		Rotameter	582402	46910		
		Venturi Tube	582403	46911		
		Differential-Pressure Transmitter (High Range)	582408	46920		
		Differential-Pressure Transmitter (Low Range)	582410	46921		
		Pneumatic Control Valve	582424	46950-B0		
		Solenoid Valve	582426	46951		
		Color Paperless Recorder	582434	46972		
		Instrumentation Mounting Pipe	582444	46990		
		Process Supports (P/F/L) Add-On for 2nd Team	588427	46991-G0		
		Drip Tray (Back)	582448	46992-C0		
		Piping and Accessories (2nd Team)	588429	46993-A0		
		For Independent Operation, add Items 4 and 5				
4		2nd Pump Add-On	582398	46904-B0	\$4,641.00	
5		AC Drive-Single Phase	8122680		\$6,870.00	
6		Advanced Process Control-P/F/L Add-On	588490	3530-M0	\$16,288.00	
		<i>Includes:</i>				
		Column (Small Diameter)	582395	46902		
		Upper Tank	588307	46903		
		Orifice Plate	588315	46912		
		Pneumatic Control Valve (Air)	582424	46950-B0		
		Ball Valve	588365	46952		
		Piping and Accessories (Advanced)	588432	46993-G0		
7		Pressure/Flow Air Process - Add-On	588507	3533-A0	\$20,159.00	
		<i>Includes:</i>				
		Air Tank (Large)	588312	46906		
		Air Tank (Small)	588313	46906-A0		
		Muffler Assembly	588314	46907		
		Orifice Plate (Air)	582404	46914		
		Rotameter (Air)	582405	46915		
		Solenoid Valve (Air)	582427	46951-A0		
		Pneumatic Control Valve (Air)	582428	46953		
		Instrumentation Mounting Pipe	582444	46990		
		Piping and Accessories (Air)	588430	46993-B0		
8		Boiler Simulation (Water/Air) Add-On	582474	3531-K0	\$31,084.00	
		<i>Includes:</i>				
		Pumping Unit	582398	46904-B0		
		Orifice Plate (Air)	582404	46914		
		Rotameter (Air)	582405	46915		
		Differential-Pressure Transmitter (Low Range)	582410	46921		
		Solenoid Valve (Air)	582427	46951-A0		
		Pneumatic Control Valve (Air)	582428	46953		
		AC Drive (Ethernet)	582436	46975-A0		
9		Advanced Temperature Process Add-On	582461	3531-20	\$42,305.00	
		<i>Includes:</i>				

	(3) RTD 100-pt	582407	46917	
	Energy Manager	582435	46974	
	Accessories Advanced (3531)	582435	46993-D0	
	Electromagnetic Flow Transmitter	588319	46922	
	Electromagnetic Flow Transmitter (2nd Team)	582419	46922-10	
10	 Boiler Simulation (Water/Air) Add-On	582478	3531-M0	\$19,615.00
	<i>Includes:</i>			
	Orifice Plate (Air)	582404	46914	
	Rotameter (Air)	582405	46915	
	Differential-Pressure Transmitter (Low Range)	582410	46921	
	Solenoid Valve (Air)	582427	46951-A0	
	Pneumatic Control Valve (Air)	582428	46953	
	Optional Equipment			
	Process Options - Pressure			
11	 Digital Pressure Gauge (Low Range)	588300	46761-C0	\$2,257.00
12	 Pressure Transmitter	588333	46928-00	\$4,742.00
	Process Options - Flow			
13	 Orifice Plate	588315	46912-00	\$1,629.00
14	 Pitot Tube	588316	46913-00	\$3,098.00
15	 Electromagnetic Flow Transmitter	582413	46922	\$11,371.00
16	 Electromagnetic Flow Transmitter (2nd Team)	582419	46922-10	\$11,371.00
17	 Vortex Flow Transmitter	588320	46923	\$10,322.00
18	 Coriolis Flow Transmitter	588323	46924	\$30,615.00
19	 Paddlewheel Flow Transmitter	588326	46925	\$4,902.00
20	 Ultrasonic Flow Transmitter	588330	46927	\$13,646.00
	Process Options - Level			
21	 Ultrasonic Level Transmitter	588337	46930	\$6,231.00
22	 Guided Radar Level Transmitter	589127	46932-10	\$9,622.00
23	 Vibrating Fork Level Switch	588344	46933	\$3,149.00
24	 Conductivity Level Switch	588346	46934	\$2,322.00
25	 Float Switch	588348	46935	\$693.00
26	 Capacitive Level Transmitter	588350	46936	\$7,335.00
	Process Options - Valves			
27	 Pneumatic Control Valve w/Digital Positioner-D	588357	46950	\$17,302.00
28	 Pneumatic Control Valve w/Digital Positioner-DVC 6000	588363	46950-E0	\$18,088.00
29	 Pneumatic Control Valve	582424	46950-B0	\$12,583.00
30	 Electric Control Valve	588360	46950-C0	\$9,360.00
31	 Solenoid Valve	582426	46951	\$1,486.00
32	 Ball Valve	588365	46952	\$200.00
	Process Options - Accessories			
33	 Touch Screen Graphic Terminal - 14.5 cm (5.7 in)	8165911	5922-E0	\$9,166.00
34	 Signal Tower 3530	587869	5924-C0	\$1,502.00
35	 Indicator Light/ Push-Button Station	587871	5925-A0	\$1,108.00
36	 Pumping Unit	582398	46904-B0	\$4,641.00
37	 Fuzzy Logic Software add-on for PLC	587902	5938	\$6,385.00
38	 Touch Screen Graphic Terminal (10 in.)	8103425	46973-10	\$11,259.00
39	 Storage Station	588301	46801-D0	\$5,921.00

40		Instrumentation Workstation (Assembled)- without Heating/Cooling Unit	588306	46900-G0	\$4,816.00	
41		Electrical Distribution Box	582453	46997	\$3,207.00	

Calibration

42		Calibration Package Basic	588416	46980	\$19,812.00	
43		Calibration Kit with Pressure Modules	588417	46980-A0	\$29,096.00	
44		Calibration Package Advanced	588418	46981	\$42,155.00	
45		Calibration Kit	588419	46981-A0	\$64,472.00	
46		Hart Software Configurator	588420	46982	\$15,110.00	
47		Software Configurator	588422	46982-B0	\$15,110.00	

Supervisory Control & Data Acquisition (SCADA)

48		FactoryTalk View SE Studio (1 license educational) for 3530 (PLC only)	588384	46968	\$2,311.00	
49		FactoryTalk View ME Station	588397	46968-20	\$4,580.00	

Controllers:

50		ABB CM30 PID Controller	8187460	46967	\$9,622.00	
51		Controllogix PLC (Education)	588519	3539-50	\$38,279.00	
52	1	Micrologix PLC	588521	3539-70	\$6,788.00	\$6,788.00
53		CompactLogix PLC	588522	3539-80	\$18,150.00	
54		ControlLogix PLC (Industry)	588513	3539-A0	\$52,146.00	
55		CompactLogix PLC	588515	3539-D0	\$21,707.00	

Festo LX Learning Experience

Includes full access to all courses for one year

56		100 Student Access for One Year	8219584		\$4,278.00	
57		100 Student Access for Three Years	8219585		\$12,832.00	
58		100 Student Access for Four Years	8219586		\$21,387.00	

Workbooks (Campus License)

59	1	Campus License, Pressure, Flow, Level, Temperature, pH, Conductivity Core Manuals	585106	85980-A0	\$1,631.00	\$1,631.00
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Training by Factory Certified Representative

60		2 Day On-Sight Training by Festo Factory Certified Specialist (2 day minimum)			\$4,260.00	
61		Additional Days On-Sight Training			\$1,850.00	

Region 5 (SETX Purchasing Coop) #20250402 Career
& Technical Educational Equipment, Supplies and/or
Services

Sub-Total	\$265,660.00
Shipping	TBD
Installation	TBD
Grand Total	\$265,660.00

Model needs a controller Model 3539, 3539-10, 3539-50,
3539-60, or 3539-70 to be fully functional.

Note: A 3% processing fee will be added for all credit card purchases.

Warranty: All equipment of our manufacturer is warranted free from defects in materials and workmanship. This warranty shall cover only the intended use of the equipment. It shall not cover damage due to alteration, negligent use or normal wear. For a period of two years from the date of installation and/or acceptance by the customer, Festo will repair or replace any Festo equipment, which having been returned to us prepaid and upon inspection, is found to be defective through normal use. We assume no liability for damage, injury or expense claimed to have been incurred through the installation or use of our products.

We sincerely appreciate your interest in our products and value your business!



Prices valid for 60 days
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6/20/26
Aaron Bloss
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Terms	Project	Delivery	FOB Point
Net 30	Momentum Automation/Systems	est. 180-240 weeks Days ARO	Katy, TX

rev.1/1/2024

Item#	Qty	Description	Part#	Unit Cost	Extended
1	1	Neutralization Skid		\$371,600.00	\$371,600.00

The following objectives have been identified.

- Re-condition skid frame
- Sand blast and repaint
- Replace all flow monitoring and control components on skid frame
- Replace all pipe and pipe valves
- Replace all wiring and connectors
- Add reverse osmosis water treatment system to help reduce build-up in system
- Replace existing PLC and HMI
- Update curriculum to reflect new components
- Addition of inline GFCI protection to reduce likelihood of shock hazard given use of water with the electrical components

2 1 1 year warrenty

INCLUDED INCLUDED

Region 5 (SETX Purchasing Coop) #20250402
Career & Technical Educational Equipment,
Supplies and/or Services

Sub-Total	\$371,600.00
Shipping & Handling	INCLUDED
Grand Total	\$371,600.00

We sincerely appreciate your interest in our products and value your business!

PROJECT QUOTE

P-26-0032 - Wharton CJC Neutralization Skid

June 18, 2026

Proprietary and Confidentiality

Please note this proposal is proprietary and confidential between Momentous Systems Group, LLC ("Momentous") and **Advanced Technologies Consultants and Wharton County Junior College** ("Customer") and should not be shared with, or shown to, other vendors or used for purposes other than evaluating the purchase and engagement of Momentous.

Summary

The Customer is seeking assistance renovating a Neutralization Skid for Wharton County Junior College (WCJC). Momentous proposes the replacement of the skid components, re-piping, addition of a water treatment system, simulated faults, reconditioning the existing skid frame, and update of curriculum.

Objectives

The following objectives have been identified.

- Re-condition skid frame
 - Sand blast and repaint
- Replace all flow monitoring and control components on skid frame
- Replace all pipe and pipe valves
- Replace all wiring and connectors
- Add reverse osmosis water treatment system to help reduce build-up in system
- Replace existing PLC and HMI
- Update curriculum to reflect new components
- Addition of inline GFCI protection to reduce likelihood of shock hazard given use of water with the electrical components

System Design Concept

Below are descriptions of the system based on our understanding of the process.

System Design

The reconditioned skid will operate fundamentally the same as the existing system. P&IDs will be mimicked as closely as possible to the current system to allow for familiarity for instructors.

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Neutralization Skid Reconditioning

In order to maintain a skid layout that is familiar to the staff at WCJC Momentous will recondition the existing skid. The skid will be sand-blasted and repainted with any adjustments for equipment mounting made as needed.

It is expected that the actual reconditioning process will take up to 3 months. Momentous will procure as much equipment as possible prior to removing the skid for reconditioning to minimize downtime for the Customer.

PLC & HMI

Momentous will provide an updated HMI and PLC from Keyence. Keyence provides top of the line equipment that supports P&ID process control with minimal or no licensing fees.

Equipment, Valves, and Instrumentation

Equipment, valves and instrumentation will be replaced with industrial grade equipment that is integrated with the PLC. The equipment provided is based on the equipment list provided by WCJC.

Reverse Osmosis System

A reverse osmosis system will be added at the line feed into the system to help minimize calcification build-up and help increase the life of the system.

Simulated Faults

Momentous will provide a fault induction panel with a locking door that the instructor will use to simulate faults such as power loss to a sensor, pump, or other equipment. The fault panel will include at least 6 different fault conditions and will be a separate panel which reduces the ability of a student seeing the fault that is being injected into the system.

Curriculum Updates

The curriculum will be updated to reflect the specifics of the new equipment, updated operation processes, and maintenance procedures, and fault testing scenarios. All curricula will be delivered in PDF format.

System Assumptions

The design described in this proposal is based on the following assumptions.

1. Existing metal skid frame and casters will be re-used.
2. Minor adjustments to frame may be necessary.
3. WCJC to utilize only GFCI protected supply to system.
4. System will be removed from WCJC during re-conditioning.

Commissioning

The system will be installed at the Customer facility in Texas City, Texas. Commissioning will include the following items.

- Delivery of skid to WCJC facility near Texas City, Texas
- Connect skid to water, air and power sources
- Demonstrate operation of all components to WCJC staff
- Up to 8 hours of customer training on use of system

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Warranty

For 1 year, beginning upon the date of Customer acceptance, Momentous will resolve issues stemming from component failures, system programming defects, and/or equipment defects.

ATC will provide initial customer support and handle normal usage or workflow concerns. Upon the determination by ATC that there is a defect in the system, Momentous will work with the end user to resolve the defect within a reasonable time frame. Delays due to component repairs, replacement or other equipment failures are outside of the control of Momentous and will be handled as efficiently as possible based on the specific incident.

Momentous will respond within 48 hours (Monday-Friday) via phone, email, or web meeting to begin identifying any system failures. Momentous anticipates that most repairs can be completed within 3-5 business days after receipt of any replacement equipment if necessary.

Warranty Exclusions

The warranty provided does not cover any of the following conditions:

- Damage to equipment by the operator
- Changes to the system by the operator or other vendors
- Damage due to lightning, power surges, or other electrical anomalies
- Damage due to misuse or abuse of the system

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