Budget Narrative

a. Budget Detail

As shown in Table 1, the Project has a total estimated cost of $31,962,300, 100 percent of which is being requested under the FY2024 CPRG Program, Measure 6, Implement Bioenergy Projects GHG Measure. No other Federal funds have been awarded to the Project. Detailed budget information including the expenditure of awarded funds and reasonableness of costs can be found below.

b. Expenditure of Awarded Funds

The Port has extensive experience with delivering grant projects. The Project Team has the personnel, knowledge, skills, and expertise necessary to implement this Project on schedule and within budget to ensure the Project's benefits are realized. The funds can easily be obligated and expended within the five year period of the grant program. The Port and its partners have successfully managed numerous state, Federal, and local grants totaling over $500 million. The Port tracks and manages the requirements of grant funding and works with respective project managers to ensure the accurate and timely deliverability of each grant program. The Port is in regular compliance with all state and Federal audits of grant funding.

The Port's procedures set forth responsibilities for Port staff and establish general procedures so that the Port may remain in compliance with the ethical, professional, and legal standards associated with grant related activity. Before applying for a grant and upon award of each individual grant, Port management carefully considers and weighs the pros and cons of the compliance requirements and any additional responsibilities each individual grant may require, including any diversion of Port resources allocated to other functions or projects. The grant project manager is responsible for the following:

1. Coordinating efforts between Port departments to ensure the Port operates in compliance with all grant requirements.
2. Identifying and communicating compliance standards that are not covered by this policy or another Port policy and communicate those standards to all those working on the grant funded project.
3. Preparing and submitting or coordinating the submission of grant materials and corresponding board agenda reports and other internal or external communication that may be necessary.
4. Preparing and submitting reimbursement requests on a timely basis, if applicable. Request, receive and manage the project budget and review grant reimbursement requests if prepared by the Grant Accountant.
5. Ensuring that appropriate approvals are obtained when necessary.
6. Preparing and submitting or ensuring the submission of status, performance, or other reports to the grantor if required.
7. Conducting or coordinating the procedures necessary to properly close out the grant with the granting agency.

Table 1 Project Budget by Category

Category	Line Item & Itemized Costs	Year 1	Year 2	Year 3	Year 4	Year 5	Total EPA Funding
PERSONNEL							
	Port Electrical/Mechanical Engineers (3,475 hours x $93/hr)	$64,600	$64,600	$64,600	$64,600	$64,600	$323,000
	Port Supervisor Electrical/Mechanical Engineer (1,491 hours x $93/hr)	$27,700	$27,700	$27,700	$27,700	$27,700	$138,500
	Port Civil Engineers (3,475 hours x $93/hr)	$64,600	$64,600	$64,600	$64,600	$64,600	$323,000
	Port Supervisor Civil Engineer (1,488 hours x $93/hr)	$27,700	$27,700	$27,700	$27,700	$27,700	$138,500
	Port Environmental Labor (1,075 hours x $93/hr)	$20,000	$20,000	$20,000	$20,000	$20,000	$100,000
	TOTAL PERSONNEL	$204,600	$204,600	$204,600	$204,600	$204,600	$1,023,000
FRINGE BENEFITS							
	Fringe Benefits @ 87.40% of Port labor	$178,800	$178,800	$178,800	$178,800	$178,800	$894,000
	TOTAL FRINGE	$0	$0	$0	$0	$0	$0
TRAVEL							
	None	$0	$0	$0	$0	$0	$0
	TOTAL TRAVEL	$0	$0	$0	$0	$0	$0
EQUIPMENT							
	None	$0	$0	$0	$0	$0	$0
	TOTAL EQUIPMENT	$0	$0	$0	$0	$0	$0
SUPPLIES							
	None	$0	$0	$0	$0	$0	$0
	TOTAL SUPPLIES	$0	$0	$0	$0	$0	$0

Category	Line Item & Itemized Costs	Year 1	Year 2	Year 3	Year 4	Year 5	Total EPA Funding
CONTRACTUAL							
	Design RFP Consultant	$60,000					$60,000
	Design Consultant to design Phase 1 and Phase 2 of Project.	$401,000	$449,500	$214,500	$117,700	$117,300	$1,300,000
	Contractor to Construct Phase 1 and Phase 2 of Project.		$4,885,700	$2,003,800	$9,188,800	$10,419,200	$26,497,500
	Inspector Contractor			$235,000	$235,000	$235,000	$705,000
	1 year Operations & Maintenance of Fuel Cells					$341,600	$341,600
	Environmental Reporting Contractor			$16,600	$16,700	$16,700	$50,000
	Contractor to perform Community Engagement	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
	TOTAL CONTRACTUAL	$441,000	$5,375,200	$2,509,900	$9,598,200	$11,169,800	$29,094,100
OTHER							$0
	Security		$36,500	$36,500	$36,500	$36,500	$146,000
	OCIP (Owner Controlled Insurance Program)		$201,300	$201,300	$201,300	$201,300	$805,200
	TOTAL OTHER	$0	$237,800	$237,800	$237,800	$237,800	$951,200
	TOTAL DIRECT	$824,400	$5,996,400	$3,131,100	$10,219,400	$11,791,000	$31,962,300
INDIRECT COSTS							
	None	$0	$0	$0	$0	$0	$0
	TOTAL INDIRECT COSTS	$0	$0	$0	$0	$0	$0
	TOTAL FUNDING FOR PROJECT	**$824,400**	**$5,996,400**	**$3,131,100**	**$10,219,400**	**$11,791,000**	**$31,962,300**

c. Reasonableness of Costs

All of the budget activities under this Project apply to Measure 6, Implement Bioenergy Projects GHG Measure. All of the activities in the budget are needed to realize the emissions reductions from the Project.

Additional details associated with the budget items are summarized below. Supporting details related to the workplan tasks are included in the Work Plan under Section 1.1.2 of the Work Plan. The Port intends to utilize a design-build project delivery method but has summarized the budget components for Port personnel costs for pre-design and design versus construction.

Bidding, Procurement, and Design

Activities under this task include project management, stakeholder engagement, request for proposals, submittal reviews, bidding, award/procurement, Port personnel costs and fringe during pre-design and design, progress payments, status reporting, etc.

- Port Electrical/Mechanical Engineer @ (1,577 hours x $93/hour) and 87.4% fringe = $274,843
- Port Supervisor Electrical/Mechanical Engineer @ (933 hours x $93/hour) and 87.4% fringe = $162,605
- Port Civil Engineer @ (1,577 hours x $93/hour) and 87.4% fringe = $274,843
- Port Supervisor Civil Engineer @ (932 hours x $93/hour) and 87.4% fringe = $162,431
- Port Environmental Labor (215 hours x $93/hour) and 87.4% fringe = $37,471
- Contractor to prepare Design RFP= $60,000
- Design Consultant for Phase 1 and Phase 2 of Project. Note the Consultant would be utilized during the duration of the project = $1,300,000
- Consultant to perform Community Engagement during Design= $40,000. Note the Consultant would be utilized during the duration of the project, this estimate is for during the Design phase.

Contractor Design, Construction, and Operations

Activities under this task include project management, stakeholder engagement, permitting coordination and fees, support of construction activities, site investigations, mobilization, demolition, site preparation, utility relocation, piping installation, pipeline connection to central utility plants, installation of fuel cells, installation of pipeline storage and control system, paving and striping, commissioning and start up, training, progress payments, status reporting, performance reporting, construction escalation, etc.

- Port Electrical/Mechanical Engineer @ (1,298 hours x $93/hour) and 87.4% fringe = $226,218
- Port Electrical/Mechanical Engineer @ (600 hours x $93/hour) and 87.4% fringe = $104,569
- Port Supervisor Electrical/Mechanical Engineer @ (558 hours x $93/hour) and 87.4% fringe = $97,249
- Port Civil Engineer @ (600 hours x $93/hour) and 87.4% fringe = $104,569
- Port Civil Engineer @ (1,298 hours x $93/hour) and 87.4% fringe = $226,218
- Port Supervisor Civil Engineer @ (556 hours x $93/hour) and 87.4% fringe = $96,901

- Port Environmental Labor (860 hours x $93/hour) and 87.4% fringe = $149,883
- Contractor to Construct Phase 1 and Phase 2 of Project. Note the Consultant would be utilized during years 2 through 5 of the project = $26,497,500
- Inspector Contractor - Construction environmental, inspection, and testing consultant = $705,000
- Consultant to perform Environmental Reporting = $50,000. Note the Consultant would be utilized during the last three years of the Project.
- Consultant to perform Community Engagement during Construction = $160,000. Note the Consultant would be utilized during the duration of the project, this estimate is for during the Construction phase.

Table 2 Additional Construction Costs Estimate Detail

Description	Quantity	Unit	Unit Price	Totals
Mobilize And Demobilize	1	LS	$1,145,000	$1,145,000
Contract Work Not Under Base Bid Items	1	LS	$818,000	$818,000
Construction Trailer And Maintenance	1	LS	$35,000	$35,000
Storm Water Pollution Prevention Plan & Storm Water Reporting Tasks	1	LS	$25,000	$25,000
Temporary Barricades And Safety Escorts	1	LS	$50,000	$50,000
Temporary Sediment, Erosion, And Environmental Control	1	LS	$25,000	$25,000
Project Surveying	1	LS	$200,000	$200,000
Remove, Dispose And Backfill Misc.	1	LS	$49,600	$49,600
Demolition And Removal of Other Miscellaneous	1	LS	$49,600	$49,600
Hand Dig	1625	BCY	$140	$227,500
Inspectors for Hand Dug Areas around Jet Fuel Pipelines	40	Day	$2,500	$100,000
Trenching Excavation and Backfill	7800	LF	$125	$975,000
Trenching/Directional Boring through Airport Dr.	2800	LF	$250	$700,000
Load Bank Run Gravel	520	TON	$ 35	$18,200
Offhaul	650	CY	$125	$81,250
Dewattering Trench 32 hours	6	Day	$261.41	$1,568.46
Selective Clearing	6.5	Acre	$1,280.28	$8,321.82
Foundations/Pads for CNG Spheres & Electrical Equipment	6	LS	$30,000	$180,000
Security Fencing	780	LF	$50	$39,000
Furnish & Install One 4" Natural Gas Pipes	10400	LF	$70	$728,000
Natural Gas Pressure Reduction System	1	LS	$75,000	$75,000
Natural Gas Compressors	1	LS	$200,000	$200,000
Natural Gas Dryers & Filters	1	LS	$ 50,000	$50,000

Description	Quantity	Unit	Unit Price	Totals
Natural Gas Storage Spheres (stack of 2 48" spheres)	1	LS	$ 95,000	$95,000
Natural Gas Decant system for Tube Trailers	4	LS	$75,000	$300,000
Furnish and install 480V Wiring and Conduit from M104 to NG Storage	1	LS	$25,000	$25,000
Furnish and Install 480/277V Distribution Gear	1	LS	$200,000	$200,000
Furnish and Install Gas Management System	2	LS	$100,000	$200,000
Gas Piping to Terminal 1 & 2 Boilers and Fuel Cells	900	LF	$60	$54,000
Gas Valves	13	LS	$2,000	$26,000
Furnish and install Fuel Cells	3	LS	$2,500,000	$7,500,000
O&M Agreement with Fuel Cells (1 year)	1	LS	$341,640	$341,640
Furnish and install Grounding System	1	LS	$15,000	$15,000
Perform NETA Acceptance Testing	1	LS	$35,000	$35,000
Perform Commissioning	1	LS	$50,000	$50,000
Provide Training	1	LS	$20,000	$20,000
Electrical Infrastructure Upgrade for Fuel Cell Integration	1	LS	$2,023,750	$2,023,750
Bollards	40	LS	$3,100	$124,000
Removable Bollards	20	LS	$5,220	$104,400
Security Cameras	20	LS	$12,000	$240,000
Fiber for Gas Management Communication	5000	LF	$9	$45,000
Fiber PVC Schedule 80 Conduit	3000	LF	$65	$195,000
Fiber Nema 4X Box, Network Switch, Fiber Termination Panel	1	LS	$217,840	$217,840
Bullet Proof Construction (CMU Walls)	1200	SF	$15	$18,000
Conduit for Wiring Devices	4500	LF	$35	$157,500
120 and/or 277V Wiring to Wiring Devices	500	LF	$200	$100,000
Natural Gas Tube Trailers	3	LS	$75,000	$225,000
Pullboxes/Vaults (Every 250')	6	LS	$8,000	$48,000
Manholes (Gas Line)	13	LS	$10,000	$130,000
Lights, Receptacles	6	LS	$575	$3,450
Permit fees (0.75% Bid)				$137,435
MAPLA (0.35% Bid)				$64,136
BCDC Pipeline Permit				$50,000
Wetland Protection				$200,000
Security (4 years)				$146,000
Owner Controlled Insurance Program (3% Construction)				$805,200