Beneficiary Eligible Mitigation Action Certification Supplemental Information and Attachments B, C, and D Beneficiary: State of Mississippi

Lead Agency: Mississippi Department of Environmental Quality
In Support of Funding Request No. 5

Supplemental Information

Eligible Mitigation Action Type Appendix D-2 item (specify): Appendix D-2, Category 4: Ferries/Tugs

Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):

Mississippi's BMP allocates \$9,870,000 to the ten (10) Eligible Mitigation Actions (EMAs) and associated administrative expenses allowed under the Trust Agreement. One of the 10 EMAs includes the replacement or repowering of ferries and tugs. This EMA Certification and funding request involves repowering a passenger ferry with a new, lower emitting diesel engine. This project will be completed in Harrison County, Mississippi.

Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):

This request is for \$282,986.25 in Trust Funds: \$246,075 to Pan Isle, Inc. and \$36,911.25 in administrative cost. The estimated lifetime emission reductions are 80.81 tons of NOx and 11371.02 tons of additional pollutants (PM2.5, HC, CO, and CO2).

Pan Isle, Inc. will be awarded \$246,075 for up to 40% of the cost to repower their M/V Gulf Islander ferry with new diesel engines and a new diesel onboard generator. The project would significantly reduce NOx emissions by replacing the current Tier 0 diesels with Tier 3 diesels. The M/V Gulf Islander is a 250-passenger ferry that provides service from the Gulfport Harbor to Ship Island, part of the Gulf Islands National Seashore. It operates on a seasonal schedule between March and October making the 22 mile trip to and from Ship Island. The diesel engines operate an average of 1150 hours annually.

Estimate of Anticipated NOx Reductions (5.2.3)

MDEQ used the US EPA's Diesel Emission Quantifier to estimate the anticipated annual reductions of NOx, PM2.5, HC, CO and CO2.

| Project | Annual Emission Reductions (tons/yr) | | | | |
|-------------|--------------------------------------|-------|-------|-------|--------|
| | NOx | PM2.5 | HC | СО | CO2 |
| Ship Island | 8.081 | 0.168 | 0.213 | 1.341 | 1137.4 |
| Totals | 8.081 | 0.168 | 0.213 | 1.341 | 1137.4 |

Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditure of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7. 1)

Mississippi Department of Environmental Quality

Describe how the Beneficiary will make documentation publicly available (5.2.7.2)

The Mississippi Department of Environmental Quality has established a VW Settlement website (https://www.mdeq.ms.gov/air/vw-mitigation-trust) to provide information about the settlement, related activities happening in the state, and points of contact for questions. Requests for Applications will be posted to this site as well as announcements of projects selected for funding after EMA Certifications are approved by the Trust Administrator.

During the development of the BMP, MDEQ conducted three public stakeholder meetings in north, central and south Mississippi attended by concerned citizens, industry, environmental groups, and government entities in which DEQ presented information about the settlement and heard public comments and suggestions for the BMP. An email list was established of trade organizations, governmental entities, industries, environmental groups, and any other interested parties to send program information and updates. That same list was used to provide project solicitations.

Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8)

MDEQ will use Environmental Mitigation Trust Funds to provide up to 40% of the cost to repower an eligible ferry/tug. Pan Isle, Inc. is required to provide at least 60% of the replacement cost.

Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):

The Mississippi Department of Environmental Quality sent the required notifications to the specified U.S. Government Agencies on February 26, 2018.

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).

The M/V Gulf Islander ferry is based in the Gulfport Harbor in Harrison County, Mississippi. This project meets the overall goal of reducing NOx emissions by replacing the existing Tier 0 diesel engines with significantly more efficient Tier 3 diesel engines. While most of the emissions benefits will be realized in Harrison County and surrounding communities, the Gulf Island National Seashore will also see benefits due to the ferry's frequent visits there. The Gulfport Harbor and The Gulf Islands National Seashore are both centers of tourist visitation. Harrison County is currently in attainment for all National Ambient Air Quality Standards; however, just 20 miles away is the Brenton Island National Wildlife Refuge, which is a designated Class 1 Area under the Clean Air Act. This classification receives special protection for air quality and visibility. By replacing the diesel engines onboard the M/V Gulf Islander ferry, the emissions reductions will also benefit this protected area.

ATTACHMENT B

Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4)

PROJECT MANAGEMENT PLAN PROJECT SCHEDULE AND MILESTONES

| Milestone | Proposed | Actual |
|---|-------------|-------------------|
| | Date | Date |
| Lead Agency Provides Notice of Availability of Mitigation Action | CY 2021 Q2 | CY 2021 Q2 |
| Funds | | |
| Project Sponsor Submits Proposal to Lead Agency | CY 2021 Q4 | <u>CY 2021 Q4</u> |
| Lead Agency Provides Written Approval of Project Sponsor's Proposal | CY 2022 Q1 | CY 2022 Q1 |
| Trustee Acknowledges Receipt of Project Certification and Funding Request and Direction | CY 2022 Q3 | CY 2022 Q3 |
| Trustee Allocates Share of State Funds for Approved Project | CY 2022 Q3 | CY 2022 Q3 |
| Lead Agency Directs Funding | CY 2022 Q3 | CY 2022 Q3 |
| Project Sponsor Obtains Cost Share, Notifies or Certifies to Lead Agency | CY 2022 Q3 | CY 2022 Q3 |
| Project Sponsor Enters into Contracts, Purchase Orders, etc Start | CY 2022 Q3 | CY 2022 Q3 |
| Project Sponsor Enters into Contracts, Purchase Orders, etc Complete | CY 2025 Q1 | CY 2023 Q3 |
| Project Installation(s) – Start | CY 2022 Q3 | CY 2022 Q3 |
| Project Installation(s) – Complete | CY 2025 Q1 | |
| | | CY 2023 Q3 |
| Project Sponsor provides detailed invoices for all claimed project | 0)/ 0005 04 | CY 2023 Q1 |
| costs, documentation for emission reduction estimates, required | CY 2025 Q1 | |
| certification documents to Lead Agency to support direction to | | |
| Trustee for Payment (Reimbursement, Direct-to-Vendor) or final | | |
| accounting (Forward Funded Projects) | 0\/ 0005 04 | 01/ 0000 00 |
| Lead Agency Completes Review of Invoices and Project Documentation and Directs Final Payment(s) | CY 2025 Q1 | CY 2023 Q2 |
| Project Sponsor Certifies Project Completion | CY 2025 Q1 | CY 2023 Q3 |
| Lead Agency Reports Project Completion | CY 2025 Q1 | CY 2023 Q4 |

PROPOSED PROJECT BUDGET

| F | Period of Perform | nance: January 2022 – January | 2025 |
|---|--------------------------|--|--------------------------------|
| Budget Category | Total Approved Budget | Share of Total Budget to be Funded by the Trust | Cost-Share (Pan Isle, Inc.) |
| Equipment Expenditure | \$679,045 | \$246,075 | \$432,970 |
| 2. Contractor Support (Provide List of Approved Contractors as Attachment with approved funding ceilings) | \$0 | \$0 | \$0 |
| 3. Subrecipient Support (Provide List of Approved Subrecipients or Grant Awardees as Attachment with approved funding ceilings) | \$0 | \$0 | \$0 |
| 4. Administrative | \$36,911.25 | \$36,911.25 | \$0 |
| Project Totals | \$715,956.25 | \$282,986.25 | \$432,970 |
| Percentage | 100% | 39.5% | 60.5% |

ACTUAL PROJECT BUDGET

| | Period of Perforn | nance: January 2022 - August | 2023 |
|--|---------------------|------------------------------|---------------------|
| Budget Category | Total Approved | Share of Total Budget to be | <u>Cost-Share</u> |
| | <u>Budget</u> | Funded by the Trust | (Pan Isle, Inc.) |
| 1. Equipment | <u>\$595,482.28</u> | <u>\$238,192.91</u> | <u>\$357,289.37</u> |
| <u>Expenditure</u> | | | |
| 2. Contractor | <u>\$0</u> | <u>\$0</u> | <u>\$0</u> |
| <u>Support</u> | | | |
| (Provide List of | | | |
| Approved Contractors as | | | |
| Contractors as Attachment with | | | |
| approved funding | | | |
| <u>ceilings)</u> | | | |
| 3. Subrecipient | <u>\$0</u> | <u>\$0</u> | <u>\$0</u> |
| <u>Support</u> | | | |
| (Provide List of | | | |
| Approved | | | |
| <u>Subrecipients or</u> Grant Awardees as | | | |
| Attachment with | | | |
| approved funding | | | |
| ceilings) | | | |
| 4. Administrative | <u>\$7,408.32</u> | <u>\$7,408.32</u> | <u>\$0</u> |
| Project Totals | <u>\$602,890.60</u> | <u>\$245,601.23</u> | <u>\$357.289.37</u> |
| <u>Percentage</u> | <u>100%</u> | <u>40.7%</u> | <u>59.3%</u> |

PROJECTED TRUST ALLOCATIONS

| | | 2022 | 2023 | 2024 | 2025 | 2026 |
|----|---|----------------|------|------|------|------|
| 1. | Anticipated Annual Project Funding to be paid through the Trust | \$282,986.25 | | | | |
| 2. | Anticipated Annual Cost Share | \$432,970 | | | | |
| 3. | Anticipated Total Project Funding by Year (line 1 plus line 2) | \$715,956.25 | | | | |
| 4. | Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation | \$0 | | | | |
| 5. | Current Beneficiary Project Funding to be paid through the Trust (line 1) | \$282,986.25 | | | | |
| 6. | Total Funding Allocated to for Beneficiary, inclusive of Current Action by Year (line 4 plus line 5) | \$282,986.25 | | | | |
| 7. | Beneficiary Share of Estimated Funds Remaining in Trust | \$2,662,501.04 | | | | |
| 8. | Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (line 7 minus line 6) | \$2,379,514.79 | | | | |

ATTACHMENT C

Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11)

The Mississippi Department of Environmental Quality will provide detailed reporting on this Category 4 Ferries/Tugs repower project in two ways:

- 1) Updates to the Mississippi Department of Environmental Quality webpage. https://www.mdeq.ms.gov/air/vw-mitigation-trust/
- 2) Mississippi's semiannual reporting obligation to the Wilmington Trust.

| ATTACHMENT D | |
|---|--|
| | |
| Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6) | |
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PUCKETT POWER SYSTEMS

14028 Highway 49 North Gulfport, Mississippi 39505 Phone: (228) 832-1711; Fax: (228) 832-4728 PROPOSAL 30924164 6/28/2021 Revision 1

Pan Isle, Inc

Attn: Louis Skrmetta

Subject: C9.3 EPA T3 375 BHP PORT AND STARBOARD

Puckett Power Systems Offers For Your Consideration The Following Quotation Per Your Inquiry.

Note: Revision 1 add breakout pricing for ZF marine gear and controls.

Quote Summary:

Two C9.3 Marine Engines \$129,832.00 Two ZF Marine Gears \$22,633.00 ZF Controls \$7,925.00

Two (2) New Caterpillar Model C9.3 EPA Tier 3 Marine Propulsion Engines, rated at 375 BHP @ 1800 RPM, B-Rated, Heat Exchanger Cooled with the following standard equipment and attachments. (Arranged for Port and Starboard Service with both Engines being standard rotation)

Complete With The Following Standard Consist As Modified Or Replaced By The "Additional Accessories" Included In This Proposal:

AIR INLET SYSTEM

Single Turbocharger, Jacket Water Cooled Turbocharger Inlet, 127 mm (5 in) OD Straight Connection

CONTROL SYSTEM

Programmable Low Idle (600 - 750 rpm)

Electronic Diagnostics and Fault Logging
Engine and Transmission Monitoring (Speed, Temperature, Pressure)
Electronic Fuel/Air Ratio Control
Engine Protection Mode for Extended Ambient Conditions
70-pin Customer Connector
Throttle Input Signal Options
0 - 5 Volts
4 - 20 mA
PWM (Pulse Width Modulated)
SAE J1939



COOLING SYSTEM

Engine Mounted Aftercooler, Shell and Tube Engine Oil Cooler, Plate Type Jacket Water Pump, Belt Driven, Centrifugal Auxiliary Water Pump, Rubber Impeller, Gear Driven

EXHAUST SYSTEM

Jacket Water Cooled Exhaust Manifold & Turbocharger 4 Bolt, 82 mm (3.25 in) ID Flanged Turbocharger Outlet

FLYWHEELS & FLYWHEEL HOUSINGS

SAE Standard Rotation (CCW facing flywheel end) Flywheel Housing: SAE No. 1 Flywheel: SAE No. 14, 113 teeth

FUEL SYSTEM

Fuel Transfer Pump, Gear Driven High Pressure Common-Rail Fuel Pump, Gear Driven Fuel Supply Connection Size: 1-3/16-12 ORFS on left side of engine

LUBE SYSTEM

Deep, Front Sump Oil Pan Valve Cover Oil Filler Location Oil Level Gauge Installed on Service Side Oil Pump, Gear Driven

GENERAL

Heat Exchanger Cooled Engines Ship with Sacrificial Zinc Anodes Front Mounted Belt Guard

CERTIFIED TO EPA TIER 3 MARINE COMMERCIAL PROPULSION (E3) CYCLE EMISSIONS STANDARDS

WITH THE FOLLOWING ADDITIONAL ACCESSORIES INCLUDED:

12 VOLT

IMO EIAPP CERT

NON GERMAN FLAGGED VESSELS

NO GERMAN FLAG IMO CERT



NO EXTENDED SERVICE COVERAGE

AIR CLEANER

TECHNICAL: Provides an air cleaner without fumes disposal, installed.

BARB CONNECTIONS HEX

TECHNICAL: Provides hose barb connections for seawater inlet and outlet. Inlet diameter 51 mm (2 in) and outlet diameter 44.5 mm (1.75in).

HEAT EXCHANGER COOLED

TECHNICAL: Sea water aftercooled (SWAC) with engine mounted jacket water heat exchanger, shell and tube.

RUBBER IMPELLER PUMP

TECHNICAL: Gear driven, rubber impeller pump installed on left hand (LH) side of engine.

NON TYPE APRVD SW CONNECTIONS

TECHNICAL: Provides sea water circuit connections with hose barb and hose clamp connections. May not meet Marine Certification Society Requirements

SIMPLEX OIL FILTER

DRIP TRAY-SIMPLEX OIL FILTER

TECHNICAL: Provides drip tray installed under simplex oil filter on service side. 15.9mm (5/8 in) hose barb connection on bottom for installation of drain hose. May be required for Marine Certification Society Approval.

STD HP PIPES NC

TECHNICAL: Provides single wall high pressure fuel rail.

SIMPLEX FUEL

TECHNICAL: Provides three-stage fuel filtration system with simplex filters. System includes shipped loose primary simplex filter and secondary/tertiary simplex fuel filters installed on the engine service side.

Requires customer supplied mounting of primary filter and associated fuel lines.



FUEL COOLER

TECHNICAL: Provides a fuel cooler installed on the LH side of engine. Fuel return location is provided on fuel cooler, 11/16-16 ORFS connection.

MANUAL PRIMING PUMP

Shipped Loose

TECHNICAL: Provides a shipped loose manual priming pump to be customer installed after primary filter. Inlet and outlet connections are 1-3/16-12 ORFS.

NO ALTERNATOR

12V ELECTRIC STARTER

TECHNICAL: Mounted on left hand (LH) side of engine

JACKET WATER HEATER-120 V

Shipped Loose

TECHNICAL: 120V / 1000 W Customer supplied mounting and lines

MECP I MAR ENG CONT PANEL

Shipped Loose

TECHNICAL: Shipped loose panel for off-engine mounting. This option does not include mounting bracket hardware and only includes the panel and harness.

CMD8 GEN 2 DISPLAY GROUP (1 per engine)

Shipped loose.

One electronic display for monitoring vessel information. Features an 8-inch, HD 1280x720 LCD touch screen with LED backlight technology. Supports 2 CAN, 3 Ethernet, 2 USB 2.0, 2 USB 3.0 and 1 RS-485. Has 4 digital inputs and 2 digital outputs. Displays engine, transmission, generator, and vessel information. TECHNICAL: 12 to 24 VDC. For single or twin engine applications using J1939 or Modbus over TCP. For triple engine applications, one LDRK is required. FOR USE WITH: Color Display Drop Harness, and marine transmission sensors if monitoring capability is required. Compatible with Asset IQ kits and MSCS.

CMD DUAL DSPLY HARN (lper engine)

Shipped loose.

TECHNICAL: Y-harness which provides ability to display parameters from two engines on a single CMD. Refer to LEGM001 for installation information.



CMDWRKT DISPLAY GROUP (1 per engine)

Shipped loose.

TECHNICAL: CMD wiring connection kit which includes sockets, receptacles wedge plugs, plug assemblies, terminating resistor, cable assembly, and sealed tubing required for installing each CMD. Dealer or customer supplied wiring required.

REQUIRES: CMD5001, CMD08G2 OR.

CRANKSHAFT PULLEY

TECHNICAL: Provides a 3 groove v-belt pulley.

STANDARD FRONT SUPPORT

TECHNICAL: Provides propulsion engine style, adjustable front support. Spans 268 mm (10.5 in) from centerline of crankshaft. Three sets of mounting holes: 67 mm (2.6 in), 117 mm (4.6 in) and 167mm (6.6 in) below centerline of crankshaft.

NO REAR ENGINE SUPPORT

VIBRATION ISOLATORS

Shipped loose.

TECHNICAL: For mounting under front supports and transmission supports in thrust applications. 1-14 Stud.

FRONT MOUNTING BRACKETS \$

Quantity 2, shipped loose.

TECHNICAL: Shipped loose brackets that mate with adjustable mounting holes on STANDARD FRONT SUPPORT (FTSPSD0). Single 27.5mm (1.08 in) mounting hole provided, 384 mm (15.1 in) from centerline of crankshaft. Compatible with VIBIS01 and VIBIS00 Vibration Isolators.

NO COOLANT LEVEL SENSOR - HEX

NO OIL LEVEL SENSOR REQUIRED

NO SEA WATER PRESSURE SENSOR

NO AIR ST PRESS SNSR ELEC ST

NO EXHAUST TEMPERATURE SENSOR

WATERCOOLED ELBOW

TECHNICAL: 90 degree wet exhaust elbow with hard-coated insulation and water-cooled nozzle canister with 127 mm (5 in) O.D. outlet. Customer



is responsible for supplying 47.6 mm (1 7/8 in) water lines and connections for raw water supply to the elbow.

COMMERCIAL FINISH

The Commercial Finish is a high gloss finish achieved using polyurethane paint over epoxy primer. Masking is limited to those components such as air cleaners, gages, etc. where paint would inhibit function or durability.

CAT YELLOW PAINT

PRESERVATION GP ENGINE

TECHNICAL: Standard protective measures.

80 FT OEM WIRING HARNESS

Shipped loose.

WIRING GROUP-TRANS SENSOR

Shipped loose.

TECHNICAL: Includes transmission pressure and temperature sensors jumper harness to connect to main engine harness. Provides sensor input to the ADEM 4 Electronic Control Module (ECM) for monitoring of transmission. Temperature sensor is 3/4-16 STOR and pressure sensor is 1/2-20 STOR.

ENGLISH LITERATURE

ENGLISH DECAL

MARINE PROPULSION ANALYSIS - One Driveline Only

Provides a torsional report for a simple marine propulsion system powered by a Caterpillar engine. The report includes natural frequency calculations, mode shapes and forced vibration predictions for the engine, coupling, gear box and propeller shafting. Select MPAPROP for complex marine applications where pumps or other equipment is driven from the front of the engine crankshaft or marine gear PTO. The following technical information is needed to perform the TVA:

Coupling mass-elastic data. This includes coupling inertia and torsional stiffness. Provide complete coupling part number and catalog reference sheets if available.

Marine gear mass-elastic data. Provide the gear manufacturers mass-elastic data sheet. If the data sheet is not available provide the manufacturer name, model number and gear ratio.



Propeller shaft. Provide dimensioned shaft drawings and shaft material. If shaft drawings are not available provide shaft diameter and length.

Propeller. Provide propeller drawing with listed inertia. If the draw or inertia value is not available provide propeller diameter and number of blades.

START UP, SEA TRIAL AND FREIGHT

Two (2) New Caterpillar Model C9.3 EPA Tier 3 Marine Propulsion Engines, rated at 375 BHP @ 1800 RPM:

PRICE: \$64,916.00 each, Plus any applicable taxes
\$129,832.00 Two, F.O.B. factory with freight allowed to Miss. Gulf Coast Jobsite
Puckett Power Systems Terms and Conditions Apply.

Breakout price for ZF marine gear: Per Shipset \$22,633.00 USD

Installed and Painted
60' TWIN SCREW PASSNGER VESSEL
CAT C9 375 HP @ 1800 RPM
ZF 305-3A R:2.037
LIGHT DUTY RATED UP TO: 450 HP @ 1800 RPM 2000 HOURS YEARLY
0.2500 X RPM = RATED HP (MAX RPM = 3000)

ZF 305-3A R:2.037 SAE1
ZF 305-3A R:2.037 SS2,
BELL HOUSING SAE1 (305A),
COUPLING V4011S-14 (311/325),
EB31 ELEC. CONTROL KIT
NPTF KIT (ZF305-1),
KIT,ELECTRIC VALVE 12v ON/OFF, Qt

3214118001 01 MOUNTING BRACKETS RIGID 3208199026 01 PROP FLANGE & BOLT KIT 3208107006 01 OIL COOLER KIT, ZF 305-1

Shipment is approximately 6 months from factory VIA ocean freight.

ZF Clear Command Twin Screw 1 Station Controls \$7,925.00 USD

Shipped Loose CLEARCOMN

CLEARCOMMAND-ELECT ENG MC2000-4P CONTROL HEAD, DUAL,

14261-80 CONTROL HEAD CABLE.

13631-30 WIRE HARNESS-PWR/S.I.

13316-10 WIRE HARNESS- SERIAL

15719-30 WIRE HARNESS, CLUTCH

13533-30 WIRE HARNESS-THROTTLE



13505 AUTOMATIC POWER SELECTO 810ETA CIRCUIT BREAKER, 10 AMP

R0002 *SYSTEM SPECIFIC *USCG DVTP PSTP

- *INSTALL NOT INCLUDED*
- *SHIPYARD PULLS CABLES*
- *ZF TECH ON SITE FOR

Engine Delivery: Approximately 23-25 weeks after receipt of firm order

Bid Validity: 30 days from the date of this Proposal.

Cancellation policy:

All orders are considered firm. Cancellations will not be accepted.

Terms:

10% Non Refundable down payment required at time of purchase. Balance due net 30 days after delivery of equipment, subject to credit approval.

Note 1:

References to right hand and left hand items refer to their location on the engine as viewed facing the flywheel end.

Note 2

All Invoices Will Be Dated The Date of Shipment, Unless Purchaser Requests Shipment To Be Delayed In Which Case The Invoice Date Shall Be The Date Manufacture Of The Products Was Completed.

Thank you for the opportunity of quoting this project. We remain at your disposal for any additional information or assistance that you may require.

Puckett Power Systems

Jason McWhorter Engine Sales

Quoted prices do not include Federal State or Local taxes which may be applicable. Quoted prices include normal testing, packaging, and instructional literature. Special testing, packaging, additional instructional literature, parts, provisioning lists or prints are not included. Pricing for these services will be quoted separately.





(954) 979-5899 (954) 979-4349 (FAX)

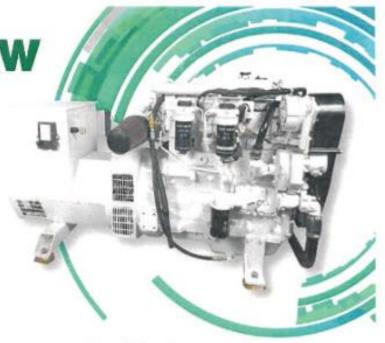
PHASOR MARINE GENERATOR QUOTE

| | | | | DATE: June | 25, 2021 |
|------------|--|------------------|-------------------|---------------|-------------|
| SOLD TO | PAN ISLES INC | | SHIP TO: | CUSTOMER WILL | ADVISE |
| | Ship Island Excursi | on | | | |
| | P.O. Box 1467 | | | | |
| | Gulfport, MS 39502 | | | | |
| TEL: 22 | 8 235-1600 | | TEL: | | |
| E-M: shipi | slandsales@outlook.com | TAX NO. | | FORWARD | Will Advise |
| TERMS | Check | Out | -of-State | NAME: | Pete |
| SALESMA | N: Alan M. | | TE Three Weeks | P.O. # | Quote |
| xxx Mar | rine | - | | REPLACEMEN | IT |
| | Heat Exchanger | | | TEMP/FLEX | |
| _ | | | _ | | |
| XXX | | ei Exnaust Elbo | w xxx | TIER 3 2013 | |
| | Radiator Cooled | | | Tier 4 | |
| EMI | ERGENCY STATION | ARY STAND BY | | Prime Power | |
| EXF | PORT | | | | |
| | Custome | er PO must be a | ttached stating | application | |
| QTY | 27-12-12-12-12-12-12-12-12-12-12-12-12-12- | CRIPTION | - | LIST PRICE | OEM PRICE |
| | | | | 210111102 | OEM THOSE |
| Two | JD4-65.0 KW | 208 Volts, Three | e Phase, 60 Hertz | \$28,520.00 | \$57,040.00 |
| Two | G-7020 Controller | AC-DC-Electron | nic Digital | \$450.00 | \$900.00 |
| Two | Exhaust Elbow | Stainless Steel | w / Temp Switch | \$700.00 | \$1,400.00 |
| | | | | Sub-Total | \$59,340.00 |
| - | PRODUCTION TII | ME THREE WI | EEKS | | |
| | WARRANTY | | R LIMITED | | |
| | F.O.B. | 1777 | D BEACH, FL | | |
| | 7.1-1-1 | 7 0 7470 | | | |
| | | | | | // |
| | | | | | |

2880 Hammondville Road Pompano Beach, FL 33069 JD4-65.0KW

Standard Features

- · Single bearing brushless generator
- » +/- 1% Solid-state voltage regulation
- Low 1,800 RPM operating speed
- Automatic engine shutdown for low oil and high coolant temperature
- · Freshwater heat exchange cooling
- . Zinc anode in heat exchanger
- Water-cooled manifold and Stainless Steel exhaust elbow
- · Direct drive seawater pump
- · Primary fuel filter
- · Secondard fuel filter
- · Air intake Cleaner / Silencer
- 12 Volt DC start / Battery charging alternator
- · 4-Point isolation motor
- · Awl-Craft 2000 urethane finish
- . 5-Year Limited Warranty



Specifications

| Model | JD4-65.0 |
|--------------------------|----------------------|
| Engine | John Deere 4045TFM |
| Cu. In. Displacement | 276 |
| Bore x Stroke | 4.19 x 5.00 (in.) |
| Dims (LxWxH) | 65 x 32 x 38 (in.) |
| Enclosure Dims (LxWxH) | 68 x 38 x 41 (in.) |
| Weight (lbs.) | 2375 |
| Output (volts) | 120/240 Single phase |
| Output (amps) | 542/271 |
| Output (watts) | 65,000 |
| Fuel Consum. @ 50% load | 2.6 GPH |
| Fuel Consum. @ 100% load | 4.8 GPH |
| Exhaust Dia. | 3.5 in. |
| | |

Specifications are subsect to shange without notice

Optional Equipment

- J-can electronic control panel with display for all engine and generator functions
- Three phase output
- · 24 Volt DC start / battery charging alternator
- · Dedicated motor starting generator windings
- · Stainless Steel drip pan

- · Powder coated aluminum enclosure
- · Remote oil filter kit
- 50 cycle output
- · Custom chrome packages
- . Bow thruster FPTO
- · Spare parts kit







(954) 979-5899 (954) 979-4349 (FAX)

PHASOR MARINE GENERATOR QUOTE

| | | | | DATE: June | 25, 2021 |
|---------------|----------------------|-----------------|-------------------------|---------------|-------------|
| SOLD TO: | PAN ISLES INC | | SHIP TO: _ | CUSTOMER WILL | ADVISE |
| | Ship Island Excursi | lon | | | |
| | P.O. Box 1467 | | | | |
| | Gulfport, MS 39502 | | | | |
| TEL: 228 | 235-1600 | | TEL: | | |
| E-M: shipists | andsales@outlook.com | TAX NO | | FORWARD | Will Advise |
| TERMS . | Check | | t-of-State | NAME: | Pete |
| SALESMAN: | Alan M | | TE TWO WEEKS | P.O. # | Quote |
| _ | | App | olication | - | |
| oox Marin | | | | REPLACEMEN | IT |
| XXX | Heat Exchanger | | | TEMP/FLEX | |
| XXX | Cast Stainless Ste | el Exhaust Elbo | w xxx | TIER 3 2013 | |
| | Radiator Cooled | | | Tier 4 | |
| EME | RGENCY STATION | ARV STAND BY | , | Prime Power | |
| EXPO | | arr on are br | | | |
| EXP | | | | | |
| | Custome | er PO must be a | attached stating | application | |
| QTY | DES | CRIPTION | | LIST PRICE | OEM PRICE |
| | | | | | |
| One | K3-7.0 KW | 120/240, Single | Phase, 60 Hertz | | \$7,740.00 |
| 0 | 404 0000 | | | | |
| One | 101-0069 | DC Gauge Pan | el w / Start / Stop / 2 | Oft Harness | \$445.00 |
| | | | | Sub-Total | \$8,185.00 |
| | | | | | |
| | DDODUONS: | | | | |
| | PRODUCTION TIL | | | | |
| | WARRANTY | | R LIMITED | | |
| _ | F.O.B. | POMPAN | O BEACH, FL | | |
| _ | | | | | |
| | | | | | |
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2880 Hammondville Road Pompano Beach, FL 33069

K3-7.0KW

Standard Features

- Kubota Diesel Engine
- Single bearing direct coupled brushless generator
- +/- 1% Solid-state voltage regulation
- Low 1,800 RPM operating speed
- Safety shutdown system for high coolant temperature or low lube oil pressure
- Single series circuit control system with no printed circuit boards - tinned wiring
- · Main line circuit breaker single phase
- · Freshwater double pass heat exchanger
- Water-cooled exhaust manifold with removable intergral Cupro-Nickel heat exchanger core
- Zinc anode in heat exchanger
- · Stainless Steel exhaust elbow cast
- · Gear-driven raw water pump
- · 4-Point isolation mounts S/S
- Molded blue silicone water hoses with Stainless Steel AWAB clamps
- · Air intake Cleaner / Silencer
- Spin-on lube filter
- Secondary 5 Micron fuel filter
- Self-bleed fuel system
- USCG approved fuel lines
- · Electric fuel transfer pump
- · Forged brass oil drain valve with safety lock
- · Awl-Craft 2000 urethane finish
- Belt guard
- . 5-Year Limited Warranty



Specifications

| D1005-E4BG |
|------------------------|
| 3 |
| 61 |
| 2.99 x 2.90 (in.) |
| 31.5 x 18 x 22.5 (in.) |
| 35 x 22 x 25.5 (in.) |
| 567 |
| 120/240 |
| 58/29 |
| 7,000 |
| 2 in. |
| 3/4 in. |
| 5/16 in. |
| 3/16 in. |
| |

Resemblations and subject in orange without riphic

Optional Equipment

- · Start / Stop 20 ft. harness
- · Custom remote engine / generator instrument panels
- DC Gauge panel 20 ft, harness
- · Stainless Steel drip pan
- Three phase generator output
- · 24 Volt starting system

- 50 Cycle output
- · Dedicated motor starting generator windings
- · Sound insulation blanket
- · Powder coated aluminum enclosure
- · Remote oil filter kits
- · Custom chrome packages
- Spare parts kit



2880 Hammondville Road • Pompano Beach, FL 33069 Ph: 954-979-5899 • Fax: 954-979-4349 Info@phasormarine.com • www.phasormarine.com