

## Addendum 1 to Request for Proposal (RFP)

### Southeast Island School District (SISD)

### Procurement of Seven (7) 25kVA Generator Complete Sets

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The following changes are made to Section III. Specifications.

- Items shown in ~~striketrough~~ text are removed from the RFP.
  - Items shown in underline text are added to the RFP.
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### III. Specifications

#### ~~1. Generator~~

- ~~○ Rated Power Output: 25kVA~~
- ~~○ Fuel Type: Diesel~~
- ~~○ Weatherproof housing for outdoor use.~~
- ~~○ Compliance with applicable emissions standards.~~

#### ~~2. Trailer~~

- ~~○ Durable and road-ready. Must be able to withstand gravel roads and uneven roads.~~
- ~~○ Equipped with safety features, including reflectors and brake lights.~~
- ~~○ Enclosed trailer option must include ventilation and weather-resistant construction to protect the generator.~~

#### ~~3. Accessories~~

- ~~○ Block heater to operate in temperatures as low as -20°F.~~
- ~~○ Battery charger compatible with the generator battery system.~~
- ~~○ Shore power connection setup must include all necessary cabling and connectors.~~

#### 1. Generator Specifications

- Power Output: 25kVA (20kW)
- Voltage Options:
  - Single Phase: 120/240V
  - Three Phase: 208V or 240V
  - Equipped with a phase selector switch for easy transition between single-phase and three-phase power.
- Frequency: 60 Hz (standard for North America) or 50 Hz (optional for international use).
- Fuel Type: Diesel

- **Alternator Type:** Brushless, synchronous alternator with automatic voltage regulation (AVR).
- **Cooling System:** Liquid-cooled with radiator and thermostat.
- **Sound Attenuation:** Weatherproof, soundproof canopy to reduce noise levels (65–75 dBA at 7 meters).
- **Control Panel:**
  - Digital display for monitoring key parameters:
    - Voltage
    - Frequency
    - Current
    - Power output (kW/kVA)
    - Fuel level
    - Runtime
    - Error codes
  - Analog gauges:
    - Oil pressure
    - Water temperature
    - Battery voltage
  - Emergency stop button.
- **Engine Specifications**
  - **Engine Type:** Industrial-grade diesel engine, liquid-cooled.
  - **Fuel Tank Capacity:** 100–120 liters (26–32 gallons) for extended run time (approximately 12–14 hours at 75% load).
  - **Fuel Consumption:** Approx. 2–3 gallons/hour at 75% load.
  - **Starting System:** Electric start with key or push-button.
  - **Starter Battery:**
    - **Battery Type:** Heavy-duty sealed lead-acid or AGM battery.
    - **Voltage:** 12V or 24V (depending on engine specifications).
    - **Capacity:** 80–100Ah for reliable cold-start performance.
    - **Mounting:** Secured in a weatherproof and vibration-resistant battery box.
    - **Charger:** Integrated trickle charger to maintain battery charge during downtime.
  - **Emission Compliance:** Tier 4 Final (or regional equivalent).
- **Safety Features**
  - **Automatic Shutoff for:**
    - Low oil pressure
    - High water temperature
    - Overload or short circuit.
  - **Circuit Breaker:** Integrated to prevent overloads.
  - **Water and Oil Pressure Gauges:** Real-time readings to monitor performance.

## 2. **Cord and Connection Specifications**

- **Cord Type:** Heavy-duty Arctic Flex flexible power cord, rated for extreme cold-weather use.
- **Length:** 50 feet.
- **Amperage Rating:** 100 amps.
- **Voltage Rating:** Up to 600 volts.
- **Cable Material:**
  - **Outer Jacket:** Arctic Flex thermoplastic elastomer (TPE), resistant to UV, oil, abrasion, and extreme cold (operating temperature: -50°C to +90°C / -58°F to +194°F).
  - **Conductors:** Multi-stranded copper for superior flexibility and conductivity in freezing temperatures.
  - **Insulation:** Low-temperature thermoplastic for durability and performance in cold climates.
- **Plug and Connector:**
  - **Generator End:** Compatible 100-amp pin and sleeve or cam-lock connectors (based on generator output panel configuration).
  - **Load End:** NEMA 3R weatherproof inlet or user-specified connection (e.g., bare leads, Hubbell plug, or distribution box-compatible connectors).
- **Standards Compliance:** UL-listed, CSA-certified, and OSHA-approved.

### 3. **Phase Selector Switch Specifications**

- **Switch Type:** Heavy-duty rotary switch for phase selection.
- **Transition Modes:**
  - **Single Phase:** 120/240V (L-N or L-L)
  - **Three Phase:** 208V/240V (L-L-L)
- **Switch Location:** Mounted on the control panel with a secure locking mechanism to prevent accidental switching.

### 4. **Trailer Specifications**

- **Mounting:** Heavy-duty trailer with reinforced frame, off-road-rated tires, and stabilizing jacks.
- **Chassis Material:** Heavy-duty steel with anti-corrosion coating.
- **Tires:** Dual-axle trailer with off-road tires.
- **Hitch:** Adjustable pintle hitch or ball hitch for towing.
- **Stabilizers:** Manual or hydraulic jacks for leveling.
- **Lighting:** LED lighting for road compliance.
- **Fuel Tank Integration:** Tank secured beneath or within the trailer frame with anti-splash design.

### 5. **Additional Features**

- **Starter Battery Maintenance:**
  - **Integrated battery disconnect switch to prevent parasitic drain.**
  - **Easy access for replacement or maintenance.**
- **Optional Accessories:**
  - **Remote monitoring and control via mobile app.**

- Block heater for cold-weather starting.
- External battery charger connection.
- Spare tire mount.
- **Battery Charger Specifications:**
  - Compatibility with 12V or 24V generator batteries.
  - Multi-stage charging capability for efficient battery management.
  - Output current: 10-20% of battery capacity (e.g., 10-20A for a 100Ah battery).
  - Reverse polarity protection.
  - Automatic voltage detection.
  - Weatherproof and durable design for outdoor use.
  - Direct AC input compatibility from the generator's output (120V/240V).
  - Support for lead-acid (flooded, AGM, gel) and lithium-ion batteries.