JUSTIFICATION AND APPROVAL
FOR OTHER THAN FULL AND OPEN COMPETITION
BRAND NAME ONLY

BACKGROUND:

Golden Gate National Recreation Area (GGNRA) seeks qualified contractors to remove and replace the existing photovoltaic (PV) inverter at the Stinson Beach Maintenance Facility located at 45 Willow Camp Way, Stinson Beach, CA 94970. The Stinson Beach Maintenance Facility supports critical operations for the National Park Service (NPS) and includes a solar photovoltaic system that contributes to the site's energy efficiency/sustainability goals and provides power for the operation of Stinson Beach lift station. The existing inverter does not meet California Rule 21 interconnection standards and must be replaced in accordance with utility interconnection standards. The existing PV system is SolarEdge Home Hub SE7600A-US002NNR2 and incorporates DC Power Optimizers, requiring hardware and software compatibility for safe operation, monitoring, and performance.

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1) **FAR Statutory Authority Cited: 10 U.S.C. 2304 (c)(2), FAR 6.302-1, Brand Name Only and Only one responsible source and no other supplies or services will satisfy agency requirements.**

- Reason for Authority Cited: The rooftop system includes SolarEdge Power Optimizers of the P-series (e.g., P401/others). SolarEdge's inter-compatibility documentation prohibits mixing optimizer generations in a single string unless they are fully compatible.
- Regulatory Requirement: Only inverters certified to UL 1741 SA / Rule 21 are eligible and compliant with PG&E interconnection rules legacy models like SE7600A are not.
- Brand Name and address of the vendor/company (point of contact, telephone/fax number or email if known).

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2) **BRAND NAME description to meet the Park's needs:**

Brand/Product: SolarEdge Home Hub inverter, model USE7600H-USMNBE78 (SolarEdge single-phase, grid-tied string inverter family).
General application: Replacement of the -obsolete PV inverter serving the Stinson Beach maintenance facility (45 Willow Camp Way), restoring grid-tied solar production in accordance with California Rule 21 interconnection requirements.
Key technical fit for our installed system: The selected model has been confirmed—by the installing contractor's representative—to be compatible with the site's existing SolarEdge power optimizers (P400-5NC4ARM), enabling a drop-in inverter replacement without re-engineering the array or optimizers.

3) Market Research conducted (efforts to obtain other BRAND NAME) or state reason for not conducting market research:

Market research confirms that no alternative inverter manufacturer provides hardware compatible with SolarEdge DC Power Optimizers. Using any other inverter brand would require complete system redesign, removal and replacement of all optimizers, and significant added cost.

Fronius Primo (3.8–8.2 kW 10–15 kW variants)

Compliance: UL 1741 Supplement SA for California Rule 21; AFCI; rapid shutdown; IEEE 1547 references; NEMA 4X enclosure. 7.6 kW: Primo 7.6-1 and 8.2-1 models. 11

- Comms/monitoring: Built-in Wi-Fi/Ethernet, SunSpec Modbus TCP/RTU, Fronius Solar.web. 9
- Inverter software not compatible with installed Optimizers

B. SMA Sunny Boy (3.0–7.7 US series)

- Compliance & grid services: UL 1741 SA; documents detail ride-through, volt-/var, frequency-watt, etc., aligned to Rule 21/IEEE 1547. 1213 7.6 kW: Sunny Boy 7.7-US (240 V split-phase), also 7.0-US/6.0-US options. 12
- Comms/monitoring: Ethernet/WLAN; Sunny Portal; SunSpec certified module-level shutdown solutions.
- Inverter software not compatible with installed Optimizers

Tesla Solar Inverter (Residential)

- Compliance: Tesla publishes **UL 1741 (Ed. 3) with Supplement SA/SB, and IEEE 1547.1 confirmations for residential products. 20
- Inverter software not compatible with installed Optimizers

Conclusion

5) Technical Certification:

"I certify all possible research to find a competitive BRAND has been exhausted within the time limits available to meet the assigned priority. No other item/brand will suffice."

Prepared by:

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