

STATEMENT OF WORK (SOW)
FI-MUE Replace Zama DSN-HHD Generator
78th Signal Battalion
Camp Zama, Japan

24 Aug 2026

1. INTRODUCTION

This Statement of Work (SOW) defines the requirements, scope, responsibilities, and deliverables for the replacement and disposal of the 150kVA emergency power diesel generator located on Camp Zama Japan Building 121.

2. SCOPE OF WORK

The contractor shall provide all necessary materials, equipment, labor, and services to:

2.1. Decommissioning and Removal of Existing Generator.

- Disconnection from the electrical distribution system.
- Safe removal of residual fuel and proper disposal as per environmental regulations.
- Safe removal of coolant and oil and proper disposal as per environmental regulations.
- Disassembly and transport of the existing generator from the site (Bldg. 121, Camp Zama) to an authorized disposal facility.
- Removal disposal of old conduits and exhaust piping that cannot be re-used for the new generator system.

2.2. Disposal and Environmental Compliance

- Disposal of the generator, engine, batteries, coolant, oils, shall be completed by the contractor utilizing off-base location.
- Proper handling and disposal of hazardous materials, including oil, fuel, and battery components.
- Contractor shall provide a copy of the receipt of disposal of any hazardous waste to the Government Representative (GR) of this contract for recorded keeping.

2.3. Installation of New Generator

- Site preparation, including foundation modifications if required.
- Delivery and offloading of the new generator.
- Installation and secure anchoring of the generator unit.
- Electrical integration with the existing power panel and ATS. Contractor is permitted to reuse existing wires and conduits from Panel L-M-2 to the generator pending they reach without the need for splicing. Splicing of wires is not permitted.
- Connection and modification of exhaust system. The contractor may reuse existing exhaust piping to avoid new holes and core drilling of the outside wall.
- The contractor shall also utilize all existing air intake ducts, both internal and external, for compatibility. The contractor is encouraged and permitted to re-use the existing fuel piping and radiator exhaust ducting, provided that they are thoroughly inspected, tested, and certified by the contractor to be in fully functional, safe, and leak-free condition prior to the integration with the new generator system.
- The existing Stainless Steel Diesel Tank, renewed in 2008 and confirmed serviceable, shall be utilized by the contractor for compatibility with the replacement generator. Technical drawings for this tank are available upon request [4]

2.4. Testing and Commissioning

- Verification of electrical connections and power output.
- Contractor shall conduct a minimum 8-hour load test utilizing site loads as part of the post installation test & commissioning plan.
- Contractor shall provide a draft post installation test and commissioning plan to the GR no later than 30 days prior to final acceptance of the new generator system. This test plan will need to be reviewed and approved by the GR prior to being implemented for acceptance.

2.5. Handover and Documentation

- Training for facility personnel on new generator operation and maintenance.
- The contractor shall submit three (3) sets of work performance and test result reports, as-built drawings, operation manuals, and warranty documents in both English and Japanese, to the GR(78th Signal Battalion/DPW) within 15 calendar days after the work completion date. Such reports shall be submitted in booklet-type and digital forms with catalog cuts/manufacturer drawings of replacement parts.

3. Technical Specifications

3.1. Existing Generator Details (To Be Disposed of)

- Capacity: 150 KVA / 120 KW
- Voltage Output: 208/120 VAC
- Make/Model: Toyo Denki Seizo / TYND-215
- Fuel Type: Diesel
- Frequency: 50 Hz
- Current Status: Unserviceable and Obsolete, to be decommissioned

3.2. New Generator Specifications

- Capacity: 150 KVA / 120 KW
- Voltage Output: 208/120 VAC
- Frequency: 50 Hz
- Fuel Type: Diesel
- Wiring: 3 Phase, 4 Wire Plus 1 Ground.
- The new diesel generator shall be fully compatible and connected to the existing ATS inside of B121 Camp Zama. The Contractor is responsible for conducting pre-proposal survey(s) prior to quote submission to confirm that the compatibility of the proposed generator with the existing ATS.
- New generator/engine shall come equipped with a water jacket heater to ensure the diesel engine is maintained at a temperature of 40-50 degrees Celsius while in standby mode.
- New generator system shall have an output breaker local to the generator to ensure proper isolation for maintenance.
- New generator shall have Phase to phase & Phase to neutral power, voltage, and amperage indication gauges/meters affixed to the generator for operational trending.

- New generator shall automatically adjust frequency based on load demands to maintain a tight operational tolerance between 49.5 – 50.5 HZ.
- New generator shall automatically adjust AVR based on load demands to maintain a tight operational tolerance between + or – 5% of nameplate per ANSI C84.1. (198V to 218V & 114V to 126V)
- Sound Level: Compliance with Japanese noise regulations for industrial zones
- Environmental Compliance: Meets Japan's emissions standards for diesel generators
- Warranty: This contract shall include an extended 2-year warranty provided either by the contractor or Original Equipment Manufacture (OEM) that covers any repairs or replacement of premature failures of the system or its subcomponents under normal operations.

3.3. Existing Automatic Transfer Switches (ATS)

- Building 121 contains two (2) existing Automatic Transfer Switches (ATS) for the emergency power system. These units are documented in the site survey files labeled "ATS and Generator" and "A.C Switch Board (ATS) pic1 - /A.C Switch Board#2L-M-1 (ATS) pic 1-4" [2]. The contractor shall ensure the new generator is fully compatible with these existing ATS units. The contractor is directed to utilize the existing ATS wiring and configuration to the maximum extent possible to minimize project costs and timelines [2].

3.4. Existing Diesel Fuel Tank

- The existing Stainless Steel Diesel Tank, renewed in 2008, is serviceable and shall be utilized for the new generator system. Technical drawings for this tank are available for contractor reference [4]. The contractor shall ensure compatibility and proper connection of the new generator to this existing fuel tank.

4. DISPOSAL OF THE EXISTING OLD GENERATOR

The contractor shall be responsible for the disposal of the existing generator and waste utilizing off-base resources. The US Government / DoD will not be responsible nor assist with the disposal of waste generated from the replacement of the diesel generator.

4.1. Removal: The contractor shall remove the existing old generator from the site, including all associated equipment, such as attached fuel tanks, piping, and electrical wiring.

4.2. Disconnection: The contractor shall disconnect the existing old generator from the electrical systems and any other systems, including the ATS (Automatic Transfer Switch).

4.3. Drainage: The contractor shall drain and dispose of any remaining fuel, oil, and fluids in an environmentally responsible manner utilizing resources off-base.

4.4. Demolition: The contractor shall demolish the old generator and dispose of all materials, including metal, plastic, and other components, in accordance with Japanese regulations and laws.

4.5. Documentation: The contractor shall provide documentation, including receipts, certificates of disposal, and photos, to confirm the disposal of the existing old generator.

Example of disposal documentation:

- Receipt from a licensed waste disposal facility
- Certificate of disposal from the Japanese Ministry of the Environment
- Photos of the disposal process, including the removal of the generator and disposal of materials

5. ACQUISITION OF THE NEW 150 KVA DIESEL GENERATOR

The contractor shall supply and deliver a new 150 KVA diesel generator that meets the following specifications:

- Power rating: 150kVA/120kW
- Voltage: 208/120VAC
- Frequency: 50 Hz
- Fuel type: Diesel

5.1. Automatic Transfer Switch (ATS): The new generator must be compatible with existing ATS unit inside of Panel P-M (See as-built drawings for reference in section 12.)

5.2. Compliance with Japanese regulations: The generator shall comply with all relevant Japanese regulations and laws, including those related to emissions, noise, and safety.

6. INSTALLATION OF THE NEW DIESEL GENERATOR

The contractor shall install the new generator, including all necessary electrical connections, testing, and commissioning, in accordance with the following requirements:

6.1. Electrical connections: The contractor shall connect the new generator to the existing electrical system and ATS located in Panel L-M. The contractors are permitted to reuse the existing electrical wires from panel L-M to the new generator pending they are not damaged and the wire connections reach without splicing. If the existing wire does not reach, the contractor will be required to supply new wires to from connections point in panel L-M and new generator output breaker.

6.2. Mechanical connections: The contractor is encouraged and permitted to reuse the existing fuel line pipes, exhaust piping, and radiator exhaust ducts to minimize the disruption of the building.

6.3. Testing: The contractor shall perform thorough testing of the new generator, including load testing, to ensure that it meets the performance requirements outlined in this SOW.

6.4. Commissioning: The contractor shall commission the new generator, including the ATS, to ensure that it is fully functional and meets the performance requirements outlined in this SOW.

6.5. Documentation: The contractor shall provide documentation, including testing and commissioning reports, to confirm that the new generator is fully functional and meets the performance requirements outlined in this SOW.

6.6. Power Outages: The contractor is required to submit any power outages for the installation at least 30 business days in advance so that tenants of the building have time to plan for the disruption. Power outages will be submitted via email to the POCs listed on this SOW.

7. PERFORMANCE REQUIREMENTS

The new generator shall meet the following performance requirements:

7.1. Power supply: The generator shall provide a stable and reliable power supply.

7.2. Voltage regulation: The generator shall maintain a voltage regulation of $\pm 5\%$ and frequency regulation between the band of 49.5 – 50.5 HZ. The generator shall automatically adjust for variable loads without user intervention.

7.3. Response time: System Response and Startup Time: The new generator system shall be designed, configured, and tested to automatically start, reach rated voltage and frequency, and accept the full emergency load through the Automatic Transfer Switch (ATS) within ten (10) seconds of receiving the start signal upon loss of utility power

7.4. Automatic transfer: The new generator shall be compatible with the existing transfer switch inside panel L-M. The contractor is responsible to confirm the generator compatibility with the existing ATS prior to submitting a proposal during the solicitation period.

8. WARRANTY AND MAINTENANCE

The contractor shall provide a minimum of 2-year warranty for the new generator, including parts and labor.

8.1. On Demand Repair and replacement: The contractor shall repair or replace any faulty or damaged parts, as needed.

8.2. Technical support and troubleshooting: The contractor shall provide technical support and troubleshooting to ensure that the generator is fully functional and meets the performance requirements outlined in this SOW.

Example of warranty and maintenance documentation:

- Warranty certificate
- Contact information for warranty support
- Repair and replacement report

9. DELIVERABLES

The contractor shall provide the following deliverables:

9.1. New 150 KVA diesel generator: The contractor shall deliver a new 150 KVA diesel generator that meets the specifications outlined in this SOW.

9.2. Installation and testing: The contractor shall install and test the new generator, including all necessary electrical connections and testing.

9.3. Documentation: The contractor shall provide documentation, including testing and commissioning reports, to confirm that the new generator is fully functional and meets the performance requirements outlined in this SOW.

9.4. Training: The contractor shall provide training to 78th Signal and DoD personnel on the operation and maintenance of the new generator.

9.5. Warranty and maintenance support: The contractor shall provide warranty and maintenance support, including parts and labor, for a minimum of 2 years.

9.6. Construction Schedule: The contractor shall submit a detailed construction and installation schedule to the GR at least thirty (30) business days prior to the scheduled commencement of any on-site work, to allow sufficient time for affected tenants to coordinate and prepare for potential service disruptions

10. CONTRACTOR RESPONSIBILITIES

The contractor shall be responsible for:

10.1. Ensuring compliance with Japanese regulations: The contractor shall ensure that the new generator and all work performed comply with all relevant Japanese regulations and laws.

10.2. Providing a safe working environment: The contractor shall provide a safe working environment for all personnel, including NEC personnel.

10.3. Maintaining confidentiality and security: The contractor shall maintain confidentiality and security of all 78th Signal information and assets.

10.4. Contractor Personnel Qualifications: The contractor or their sub-contractors shall ensure their employees have the following current and valid professional certifications to provide the required services under this contract. The contractor shall be responsible for ensuring their employees have these qualifications for the entire life of this contract. A copy of the certificates or permits must be submitted prior to contract award:

- 2nd Class Electrician License (第二種電気工事士)
- 3rd Class Chief Electrical Engineer License (第三種電気主任技術者)
- Specialized Electrical Construction Qualification for Emergency Backup Generator Construction (特殊電気工事資格 :非常用予備発電装置工事)

11. POINT OF CONTACTS

The point of contact for this project shall be:

Derrick L Lewis – Electronics Maintenance Supervisor DSN; 315-262-3290

Shaun S Campbell – Logistics Manager – shaun.campbell5.civ@army.mil DSN: 315-262-3272

12. ACCEPTANCE CRITERIA

The 78th Signal battalion shall accept the new generator based on the following criteria:

12.1. Compliance with specifications: The new generator shall meet the specifications outlined in this SOW.

12.2. Performance requirements: The new generator shall meet the performance requirements outlined in this SOW.

12.3. Installation and testing: The new generator shall be properly installed and tested, including all necessary electrical connections and testing.

12.4. Documentation: The contractor shall provide documentation, including testing and commissioning reports, to confirm that the new generator is fully functional and meets the performance requirements outlined in this SOW.

Example of acceptance criteria:

- Compliance with specifications, including power rating, voltage, and frequency
- Performance requirements, including voltage regulation, response time, and efficiency
- Installation and testing, including electrical connections and load testing
- Documentation, including testing and commissioning reports

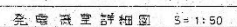
13. References:

Document Number	Document Title
Engineering Manual 385-I-1	Safety and Health Requirements
AR 385-10	The Army Safety Program
AR 200-1	Environmental Protection and Enhancement
AR 385-40	Accident Reporting and Records
Title 29 Code of Federal Regulations	U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) Standards - Part 1926.62 For Construction
OMA 214	Standard Technical Specifications for OMA Projects Korea
TIA-607-C (Revision of TIA-607-B)	Generic Telecommunications Bonding and Grounding (Earthing) For Customer Premises
TM 5-692	Maintenance of Mechanical and Electrical Equipment at C4ISR Facilities
NETCOM Regulation 420-1	Site Power Coordinator Program
UFC 3-540-01	Engine-Driven Generator Systems for Prime and Standby power applications
UFC 3-560-01	Safety/ Operations/ Management
UFC 3-600-01	Fire protection criteria

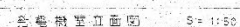
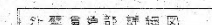
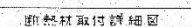
UFC 3-501-01	Electrical General Requirements
UFC 3-580-01	Telecommunications interior infrastructure planning & design
UFC 3-460-01	Petroleum Fuel facilities
NFPA 1	Fire Code
NFPA 30	Flammable and Combustible Liquids Code
NFPA 37	Installation and Use of Stationary Combustion engines and Gas turbines
NFPA 70	National Electrical Code
NFPA 70E	Electrical Safety in the Workplace
NFPA 110	Emergency and Standby Power systems

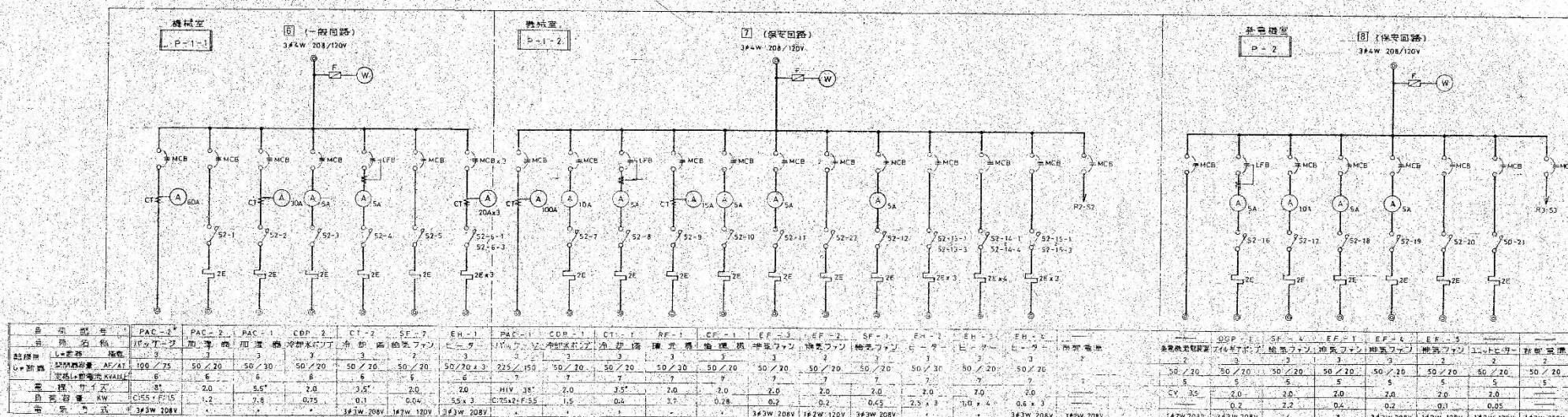
14. Attachments and Documentation:

The drawings attached to this SOW represent only a portion of the site layout. The contractor may request additional relevant drawings, schematics, or technical data through the designated Point of Contact (POC) or GR during the solicitation and planning phases.



N C	機器名称	備考
(1)	発電機	150 KVA
(2)	エンジン	ディーゼルエンジン
(3)	発電機盤	自給燃料
(4)	バッテリー	
(5)	ラジエター	
(6)	燃料小出量レギュレーターポンプ	別途機械工事
(7)	排水路	75 cS (出口 m)





配電盤 及び 動力配線箱 図 (1)	NON
MAIN & POWER CONTROL PANEL (1)	

Cover sheet for this set of construction documents was signed.

座間(60年度)電話交換所	10
新設電気工事	19
配電盤の電力設備德國(1)	
MAIN & POWER CONTROL PANEL (1)	尺 NGN
器具金具等 建築材料 設計	
昭和 51 年 7 月	

