HOOVER DAM EMERGENCY GENERATOR
MAINTENANCE AND REPAIR SERVICES
PERFORMANCE WORK STATEMENT (PWS)

1.0 GENERAL

1.01 INTRODUCTION

The Bureau of Reclamation (BOR), Lower Colorado Region, requires comprehensive generator and automatic transfer switch (ATS) maintenance and repair services for Hoover Dam facilities. This PWS outlines a five-year Blanket Purchase Agreement (BPA) to support preventative maintenance (PM), emergency services, and repair of electrical generator systems. All generator inspections, services, and repairs shall be performed Monday through Friday, excluding Federal holidays. Tasks shall be performed during the day between 7:00 a.m. and 4:00 p.m. If generator inspections, services, or repairs require interruption of electrical services, the inspections, services, or repairs shall be accomplished after normal hours or on the weekend. This shall be specified in the task order.

This Performance Work Statement (PWS) set forth requirements for generator and ATS inspections, services, and repairs at BOR's Hoover Dam Bolder City Nevada.

1.02 SCOPE OF WORK

The Contractor shall provide all personnel, supervision, labor, subcontractors, tools, materials, equipment, and supplies necessary to inspect, maintain, and repair electrical power generators and ATS units, in accordance with manufacturer instructions and all applicable regulations. The Contractor shall provide customer service, inspections, services, quality control and all other services as listed herein. The Contractor shall determine how work is to be performed, how much labor is needed to perform the tasks, what methods will be used to complete the job, and which supplies, materials, and equipment are needed. These performance-based specifications express the Government's requirements in the form of General Work Quality Standards (GWQS) (see Section 2.10). GWQSs are provided as the Government's best gauge of the minimum quality standards to be met. The results of the work performed under this contract will conform to the GWQS. The Government expects that these minimum standards will be met or exceeded during generator and ATS inspection and service processes.

1.03 PERIOD OF PERFORMANCE

The period of performance for this BPA is five (5) years from date of award. Specific tasks will be issued through BPA Calls.

1.04 LOCATIONS AND EQUIPMENT

All services shall be performed at Hoover Dam and associated BOR facilities, the following generators are included:

#	*Location*	*Engine*	*kW*	*Manufacturer*	*Model*
1	NV SRF Building	C10TE1D	287	Himoinsa	HFW-290-T6
2	NV Visitor Center	Cummins KTA50-G3	1250	Onan	1250DFLC75207L
3	NV Lower Portal Rd	VH4D1	10	Kato Lite	L10FJW4
4	NV Gantry Crane	Cummins 6BT-5.9	80	Kohler	80ROZ271
5	AZ Portable Unit	4B3.9-G2	35	Onan	DGBB-5006900
6	AZ Gantry Crane	Cummins 6BT-5.9	80	Kohler	80ROZ271

2.0 EXECUTION

2.01 CONTRACTOR RESPONSIBILITIES

i. Schedule, coordinate, and execute inspections, tests and repairs with approval from the Hoover Dam Foreman I, Electrician (Power Systems) Maintenance Office, Electrical Group.

ii. Initial work on this BPA will be an Annual Inspection, Testing, and Service.

iii. Ensure compliance with NEC, OSHA, NFPA 70B/70E, ASME, ANSI, and other applicable codes.

iv. Provide documentation of technician certification equivalent to (EGSA Electrical Generator Systems Technician Certification) for personnel who are to perform inspections, tests and repairs.

v. Provide service jackets maintaining detailed service records and repairs to be kept on site (Hoover Dam Electrical Office) for each emergency generator and ATS.

vi. Provide written reports for all services performed.

vii. Respond to emergency calls per Section 2.03

2.02 SERVICE REQUIREMENTS

Quarterly Inspection, Testing, and Service:

Performed by qualified personnel and includes:

i. Belts, Cooling System, Oil Level, Exhaust System (Contractor to provide and install fluids as needed)

ii. Engine Crankcase, Air Filters

iii. Fuel system and storage tank (Hoover Dam to provide fuel and fuel additives)

iv. Governor, Control Panel, Gauges

v. Battery and starting system, Generator protective devices

vi. Operational checks: Oil pressure, voltage, frequency, leaks

vii. ATS: Inspect and document results.

Annual Inspection, Testing, and Service:

Performed by qualified personnel and includes:

i. Replace air filters and fuel filters (Contractor to provide labor and materials)

ii. Test coolant and fuel Document results.

iii. Change oil and filters. (Contractor to provide labor and materials).

iv. Test batteries and charging system. Document results

v. ATS: Inspect and test in accordance with manufacturer requirements. Document results.

vi. Supply and install grease per the manufacturer's recommendations.

vii. Conduct load bank test to 80% rated load capacity of the unit for a minimum of 60 minutes. (Mobile load bank provided by contractor) The load tests must be scheduled with the Hoover Dam Foreman I, Electrician (Power Systems) Maintenance Office, Electrical Group

2.03 REPAIRS AND EMERGENCY SERVICES

Scheduled Repairs:

i. Non-emergency repairs shall be completed within two business days from notification.

ii. No repairs exceeding $500 shall be performed without prior approval via BPA Call.

iii. A detailed inspection and repair report is required within 5 business days of service.

Emergency Repairs:

i. Contractor must respond to notification within 8 hours.

ii. Contractor to have two qualified representatives on-site within 24 hours.

iii. Work shall begin within 24 hours; priority will be assigned by the Government if multiple emergencies occur.

2.04 DELIVERABLES

The Contractor shall submit the following:

i. Inspection Reports (Quarterly and Annual): Within 5 business days.

ii. Repair Reports: Within 5 business days of task completion.

iii. Equipment Deficiency Checklist: Submitted with each inspection report.

iv. Service Log: Cumulative maintenance history provided annually.

v. All reports shall be submitted in PDF format via email to the Contracting Officer (CO) and the designated Technical Point of Contact (POC).

2.05 QUALITY ASSURANCE

The Government will conduct quality assurance in accordance with Section 2.06, Work Performance Analysis.

2.06 QUALITY CONTROL

i. The Contractor shall implement a Quality Control Plan (QCP) to ensure all work meets or exceeds standards. The Government reserves the right to inspect any service for compliance.

ii. The Contractor shall establish and maintain a complete Quality Control Plan (QCP) to ensure the requirements of the contract are provided as specified. Contractor Submittals, one copy of the Contractor's QCP shall be provided to the COR for approval not later than the post-award conference. A revised copy of the QCP shall also be provided to the COR for approval as changes occur. No payments shall be made under the contract until the initial QCP is approved by the Government. The plan shall include, as a minimum, the following:

iii. A self-inspection system covering all the services listed in Section 2.02. It must specify the areas to be inspected and repairs on both a scheduled or unscheduled basis, how often inspections will be accomplished, and the title of the individual(s) who will perform the inspections. The Contractor shall establish methods for identifying and preventing defects in the quality of service/maintenance performed before the level of performance becomes unacceptable.

2.07 DEFINITIONS AND ACRONYMS

2.07(A) Definitions

Acceptable Quality Level (AQL): The maximum percentage defective or the maximum number of defects that can be considered satisfactory on average. It is the allowable leeway from a standard before the Government will reject the specific service. An AQL does not imply that the Contractor may knowingly perform in an unsatisfactory way. Maintenance Noncompliance: Those actions lacking and/or not taken by the Contractor to ensure that the standards and requirements of the contract are met (i.e., not in conformity with contract requirements).

Contract Discrepancy Report (CDR): A report initiated by the Government, which the Contractor is required to complete, whenever performance is unsatisfactory. The CDR requires the Contractor to explain in writing why performance was unsatisfactory, how performance will be returned to satisfactory levels, and the corrective action that will be taken to prevent recurrence.

Customer Complaint Inspection: Unscheduled surveillance of Contractor's work prompted by the agency (BOR) receiving the service. The COR may receive customer complaints about the Contractor's performance or quality of service. The COR may review the alleged unsatisfactory performance, verify the contract requirement and provide the Contractor with notification of deficiencies, if applicable.

Defect: Each instance of non-compliance with a contract requirement. A defect may be caused by either non-performance or poor performance. Each defect is subject to

deductions from the Contractor's payment if the defect is not corrected in a timely manner as stated in paragraph 9.3.
Spot: A temporarily discolored, marked, soiled area or stain caused by a foreign substance presently or previously on the surface.
Green Initiative: The green initiative covers many facets such as generating inspection checklists electronically instead of paper, using environmentally safe cleaners, promoting energy-efficiency, etc.
Inspection: Surveillance of the entire Contractor's work on scheduled and random basis.
Safety Data Sheet (SDS): A document that chemical manufacturers supply with their products to describe the chemical's general properties, its hazards, and how to safely use, handle and store the product.
Paragraph: For this contract, all occurrences within the contract text of the term "paragraph" shall be understood to include the stated or referenced paragraph and all levels of subparagraphs below the stated or referenced paragraph.
Quality Assurance (QA): Those actions taken by the Government to determine that the services received meet the contract requirements. QA evaluators are Government employees responsible for checking Contractor performance. Quality Control (QC): Those actions taken by the Contractor to ensure that the standards and requirements of the contract are met.

2.07(B) Acronyms

Acronym		Meaning
ANSI	=	American National Standards Institute
AQL	=	Acceptable Quality Level
CDR	=	Contract Discrepancy Report
CO	=	Contracting Officer
COR	=	Contracting Officer's Representative
CR	=	Contractor's Representative
GWQS	=	General Work Quality Standards
NEC	=	National Electric Code
NFPA	=	National Fire Protection Agency
PRS	=	Performance Requirement Summary
PWS	=	Performance Work Statement
RSHS	=	Reclamation Safety & Health Standards
QA	=	Quality Assurance
QAE	=	Quality Assurance Evaluators
QASP	=	Quality Assurance Surveillance Plan
QC	=	Quality Control
SDS	=	Safety Data Sheet
TE	=	Technical Exhibit

2.08 ACCEPTANCE CRITERIA

Work will be accepted if:

i. All tasks conform to manufacturer and code standards

ii. Reports are complete, accurate, and submitted timely

iii. No repeat deficiencies or failures are noted

2.09 SAFETY

i. The Contractor shall not require any Contractor employee in the performance of this contract to work under conditions which are unsanitary, hazardous, or dangerous to the Contractor employee's health or safety, as determined under safety and health standards promulgated by the Secretary of Labor under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327 et seq.), as amended, and the most current version of Reclamation Safety and Health Standards (RSHS), published by the Bureau of Reclamation.

ii. The Contractor shall comply with all applicable safety and occupational health requirements set forth in 29 CFR 1910, Occupational Safety and Health Association (OSHA) General Industry Standards and with the RSHS. In the case of a conflict between 29 CFR 1910, OSHA's General Industry Standards, 29 CFR 1926, OSHA Construction Industry Regulations, and the RSHS, the more stringent requirements apply. If the Contractor fails or refuses to promptly comply with safety requirements, the CO may issue an order stopping all or part of the work until satisfactory corrective action has been taken.

iii. The Bureau of Reclamation Regional Safety Office will review the Contractor's "Safety Program" for compliance with the RSHS. Job Hazard Analysis (JHA) submitted for approval must be site-specific and follow guidelines set forth in the RSHS. Both Safety Plan and JHAs must be submitted for approval at least two (2) weeks prior to the start of work.

iv. Reclamation's objective is to eliminate or minimize exposure to hazards. The primary tool Reclamation uses to do this is the hierarchy of controls, which prioritizes hazard controls in order from most effective to least effective. The hazard controls in the hierarchy are: elimination, substitution, engineering controls, administrative controls, and PPE. Since PPE is the least effective method of hazard control and mitigates the least amount of risk, it must be used in conjunction with other, more effective means of hazard control whenever feasible. All other means of controlling a hazard must be considered and determined infeasible before PPE is selected as the sole primary hazard control.

v. All Reclamation-owned, -controlled, or -occupied facilities and construction sites shall implement Facilities Instructions, Standards, and Techniques (FIST) Volume 1-1, Hazardous Energy Control Program.

vi. The Contractor shall ensure that employees observe safe work practices in accordance with the RSHS and as appropriate for the character of the services performed. The COR

will evaluate the public demeanor and ability of the Contractor's employees to safely perform the work. If the COR determines a contractor's employee is unacceptable because of inadequate public demeanor or by reason of physical or mental impairment, the COR will contact the CO, who will then request the Contractor or CR remove the employee and provide an adequate substitute. The CR shall provide the substitute within 4 hours of such request.

vii. Reporting Emergencies, Injuries and Illnesses: The Contractor shall call the appropriate emergency services to report incidents such as criminal acts, fires, or medical emergencies. The Contractor shall call the COR immediately to report such incidents as bomb threats, chemical spills, or suspicious packages. The COR will then provide instructions on whether any action should be taken. Regional Office policies and phone numbers may be updated periodically. The Government will provide a copy of all updated policies and phone numbers to the Contractor as necessary. The Contractor shall investigate and report accidents, injuries, or illnesses in accordance with RSHS.

2.10 GENERAL WORK QUALITY STANDARDS (GWQS)

The COR (and alternate COR, if appointed) will be designated in writing at the time of contract award. The COR will inspect work quality and bring any deficiencies to the Contractor's attention. The Contractor shall remedy such deficiencies within 8 business hours.

The Contractor shall accomplish the specific inspection, service, generator troubleshooting and repair tasks for all the equipment listed in this PWS in accordance with the specific tasks as described below. The Contractor shall designate a person to coordinate with the COR regarding all aspects of these tasks. The Contractor shall provide all management, planning, supervision, administration, equipment, supplies and personnel necessary to ensure the tasks outlined below are performed in a manner that will maintain the full functionality of all BOR electrical power generators.

All generator inspection, service, repair tasks shall be accomplished to meet the requirements of this PWS. The Contractor shall maintain each electrical power generator to the standards established in this contract.

2.10(A) Reporting to BOR

Contractor shall coordinate access and security requirements with the Technical POC (Escort Required). Vehicle parking at the tail bay requires parking pass obtained from SRF.

2.10(B) Specific Tasks

The Contractor shall follow the manufacturer's recommendation for inspecting, servicing, troubleshooting, and repairing generators. The Contractor shall not make repairs where cost exceeds $500 without written approval from the COR or CO. The Contractor shall notify the COR or CO if the cost of the repair shall be greater than $500. The Contractor shall provide a detailed report of all actions taken to repair the generator to include parts and a cost breakout. The report shall also contain the technician's name, date, generator location, generator manufacturer and model number; a copy of the report will be provided to the COR or CO within five (5) business days of the repair being completed. The Contractor shall certify that all repairs have been made, and that the generator has been returned into service. The Contractor shall also provide copies of all inspections and services, which shall be provided to the COR or CO.

The Contractor shall implement comprehensive inspection, testing preventive maintenance, and repair programs incorporating the manufacturer's instructions, and complying with the current version of NEC (requirements for generators and standby power systems), OSHA, NFPA 70B/70E, ASME, ANSI, as well as all Federal, State, and county codes and regulations.

At a minimum, the inspection, testing, preventive maintenance, and repair program shall include the following:

a. Periodic inspections, testing and preventive maintenance frequency and schedule

b. Written comprehensive maintenance procedures and schedule incorporating the manufacturer's instructions to define the tasks and skills required.

c. Qualifications of personnel performing the task.

d. Tools and instruments to perform the work.

e. Inspection and testing checklist including equipment history and record of dates of service, conditions found, maintenance performed, and changes made.

f. Equipment condition assessment before and after maintenance and testing.

g. Supply of spare parts to perform required maintenance.

h. Housekeeping essential for prevention of fires or explosions.

2.11 SECURITY

Contractor shall coordinate access and security requirements with the Technical POC (Escort Required). Vehicle parking at the tail bay requires parking pass obtained from SRF.

2.12 BPA CALL PROCESS

i. All tasks shall be initiated by a written BPA Call

ii. Calls will define scope, location, pricing (T&M or Fixed Price), and deliverables

iii. No work may commence without an authorized BPA Call

2.13 EXCLUSIONS

The following are not included in this contract:

i. Full generator replacements

ii. Major engine overhauls or catastrophic failures

iii. Alternator repairs beyond standard PM

iv. Emission upgrades, fuel tank removal, or control system reprogramming

v. Enclosure repairs (except those caused by contractor)

2.14 HAZARDOUS MATERIAL

If a hazardous material is used or solid or hazardous waste is generated, then a waste management plan shall be developed for the hazardous materials used or waste generated on the project. The waste management plan shall be submitted to the COR. The COR shall provide the waste management plan to the Reclamations Hazmat Coordinator for review and approval before any work begins. If hazardous waste is generated, the contract shall provide all hazardous waste disposal documentation to the COR and the COR shall provide this documentation to Reclamations Hazmat Coordinator for review and signature. Contractors are not authorized to sign hazardous waste disposal documentation on behalf of the federal government. The requester shall coordinate with the Hazmat Coordinator to review all submittals before work begins.

Additionally, in the waste management plan the contractor shall identify pollution prevention and recycling activities and log the amount of solid waste to be diverted from a landfill. The requester shall coordinate with the Hazmat Coordinator to review all submittals before work begins and at the end of the project. Form E, the Waste Diversion Form, is required to track waste that is going to the landfill and those materials that are reused or recycled. This is to divert as much of the waste materials as possible from going to permeant landfill disposal. Please provide a copy of the Form E to the SEMS coordinator at the end of the year and again at the end of the contract.

All hazardous materials that are used for the project shall have a safety data sheet (SDS) and Hazardous Material Authorization Form submitted to the COR. The COR shall provide the SDS and HMA form for review and approval by Reclamation's Safety and Hazmat Office before any work begins. The requester shall coordinate with the Hazmat Coordinator to review all submittals before work begins and utilize (Form B) the Green Procurement Form.

A spill reporting and notification plan shall be developed for the hazardous materials used on this project and submitted to the COR. The COR will provide a copy to the Reclamations Hazmat Coordinator for approval before work begins.

2.15 POINTS OF CONTACT

i. Contracting Officer: [To be filled in upon award]

ii. Technical Representative: [To be assigned]

Required Submittals

RSN	Submittals Required	Reference Paragraph or clause	Number or set to mail to*		Due date or delivery date
			CO	COR	
001	Insurance	FAR 52.228-5	1	0	Within 15 calendar days after award
002	Quality Control Plan	2.06 (ii)	1	1	Post-award conference
003	Safety Program	2.09 (iii)			Post-award conference
004	Contractor's Representative Information		1	1	Post-award conference
005	Generator Inspection Report/ Form	2.04 (i)	1	1	Post-award conference (initial) and updated during performance of the contract as necessary.
006	Generator Repair Report/Form	2.04 (ii)	1	1	Due to the COR/CO five business days after repairs are complete
007	Waste management plan	2.14	1		Post-award conference (initial) and updated during performance of the contract as necessary.

008	Spill reporting and notification plan	2.14	1		Post-award conference (initial) and updated during performance of the contract as necessary.