

ATTACHMENT 2

DIVISION OF RESPONSIBILITIES

Tygarts Creek Station

Reciprocating Engine-Generator Sets, Outdoor Enclosures, Switchgear, Controls, and Auxiliaries

Two Identical Units Initially | Optional Third Identical Unit | 12.47 kV Distribution Interconnection

Kentucky Municipal Energy Agency
September 2026

Purpose and Instructions

This DOR defines the principal scope boundaries for Tygarts Creek Station. KYMEA is soliciting diesel-fueled proposals, natural gas-fueled proposals, or both. Each Base Proposal shall consist of two identical modular reciprocating engine-generator sets selected by the Proposer to provide aggregate net dependable output generally near 5 MW, with a separately priced third identical unit. Exact unit rating is not prescribed.

- Proposers shall review all responsibility assignments, confirm acceptance of the Division of Responsibilities, and identify every proposed deviation or exception directly in the applicable row or in an attached exception schedule. Any responsibility assignment not expressly identified as an exception will be deemed accepted by the Proposer.
- Battery Limit identifies the physical or contractual interface at which responsibility transfers between parties. It is used only where a specific scope boundary or connection point requires clarification. Note is used only for a material clarification. Rows without a note require no additional qualifier.
- Responsibility codes: DE = design/engineer; F = furnish; D = deliver; U = unload; I = install; W = field wire/pipe/connect; T = test; C = commission; G = guarantee; R = review/support/provide information; A = owner approval and/or retained owner responsibility; WI = witness; Price = provide separate pricing.

Load and Interconnection Basis

- The facility is anticipated to interconnect to Olive Hill's single distribution feeder adjacent to the AEP 69 kV substation at or near the point where KYMEA meters usage for PJM and AEP billing.
- Historical hourly aggregate load is useful for load-duration and dispatch analysis but does not represent instantaneous intrahour peak demand. Equipment sizing and no-export controls shall include appropriate margin for intrahour variability.
- Historical data does not demonstrate sustained load growth. The optional third unit is retained primarily for reliability, one-unit-out capability, extreme peaks, island service, and future flexibility rather than assumed organic load growth.
- Each unit and the complete facility shall be capable of 100% rated net dependable output. Normal dispatch may target less than maximum output when appropriate for load following, import margin, or operating reserve.

Detailed Division of Responsibilities

Base roles: Supplier = packaged generator/equipment supplier; Contractor = separate installation contractor; KYMEA = responsibilities retained or coordinated by KYMEA, including coordination with Olive Hill, AEP, and KYMEA's consultants, as applicable. Turnkey applies only to an optional turnkey proposal.

Scope Item / Description	Supplier	Contractor	KYMEA	Turnkey
1. PROJECT BASIS AND GENERAL REQUIREMENTS				
1. Facility configuration: Provide an initial installation of two identical modular reciprocating engine-generator sets using the fuel technology identified in the applicable Proposal. Select standard commercially available unit ratings that provide an aggregate net dependable output generally near 5 MW. Provide a separately priced option for a third identical unit. <i>Note: KYMEA is not prescribing an exact 2.5 MW unit rating. Proposer shall state gross and net output for the base and expanded configurations.</i>	DE/F/G		A/R	DE/F/I/T/C/G
2. Sizing basis: Optimize unit size and configuration for peak reduction, no-export load following, islanding, reliability, maintainability, and lifecycle cost. <i>Note: Historical hourly aggregate load is typically below 5 MW, but instantaneous intrahour demand may exceed hourly values. Do not treat hourly maximums as an absolute design ceiling.</i>	DE/R		A/R	DE/R
3. Net dependable output: Guarantee the maximum continuous net output deliverable at the 12.47 kV facility point of interconnection under specified site conditions with all required auxiliaries operating. <i>Note: Separately state gross generator output, site derating, package auxiliaries, common auxiliaries, and losses.</i>	G		A	G
4. Rated-load capability: Design each engine-generator set and the complete facility for continuous operation at 100% of rated net dependable output under the specified site conditions. <i>Note: The normal dispatch target may be below maximum output, but no 90% nameplate limitation shall apply. Identify recommended loading range and all restrictions.</i>	DE/F/G	I/T	A/R	DE/F/I/T/C/G
5. Intended duty: Stationary non-emergency operation for PJM capacity-peak reduction, AEP transmission-peak reduction, high-price energy operation, reliability, and island service. <i>Note: Expected operation is approximately 240 hours per year for the diesel operating scenario and approximately 2,000 hours per year for the natural gas operating scenario. Emergency-only certified equipment is not acceptable. These estimates do not guarantee minimum operating hours.</i>	G		A/R	G
6. Operating modes: Support grid-parallel, no-export, intentional island, black-start, dead-bus energization, load following, and resynchronization.	DE/F/T/C/G	I/W/T	A/R	DE/F/I/W/T/C/G
7. Generator and interconnection voltage: Base the facility electrical design on interconnection to Olive Hill's 12.47 kV nominal, three-phase, 60 Hz, grounded-wye distribution system. The Proposer shall state the proposed generator terminal voltage and provide all generator step-up transformers, if required, within the Supplier scope. <i>Note: Final generator-neutral treatment, neutral-grounding arrangement, protection requirements, feeder configuration, and interconnection details will be established during final design in coordination with KYMEA, Olive Hill, and AEP.</i>	DE/F/G	I/W	A/R	DE/F/I/W/T/C/G
8. Site conditions: Confirm elevation, ambient temperature, humidity, wind, snow, seismic, flood, corrosion, and environmental criteria; identify all deratings.	DE/R		A/R	DE/R
9. Codes and standards: Comply with applicable federal, Kentucky, local, AEP, PJM, NFPA, NEC, NEMA, IEEE, UL, IBC, and OSHA requirements.	DE/F/G	I/T	A/R	DE/F/I/T/C/G
10. Project schedule: Provide engineering, submittal, manufacturing, delivery, installation-support, startup, and commissioning schedule with critical-path items.	R	R	A	R
11. Optional turnkey proposal: Proposer may submit a complete turnkey alternate using this same DOR. <i>Note: Turnkey proposal shall identify all exclusions, allowances, and owner-furnished items.</i>			A	DE/F/D/U/I/W/T/C/G
2. ENGINE-GENERATOR PACKAGES				
12. Reciprocating engine: Provide a stationary reciprocating internal combustion engine appropriate for the proposed diesel or natural gas fuel technology, intended duty, annual operating profile, emissions requirements, and site conditions.	DE/F/G	I	A/R	DE/F/I/T/C/G

Scope Item / Description	Supplier	Contractor	KYMEA	Turnkey
13. Alternator: Provide synchronous generator matched to engine output and suitable for grid-parallel and island operation.	DE/F/G	I/W	A/R	DE/F/I/W/T/C/G
14. Base, coupling, and isolation: Provide common base, coupling, guards, vibration isolation, fastening hardware, and alignment requirements. <i>Note: Supplier shall provide certified static and dynamic loads, anchor requirements, and final installation tolerances.</i>	DE/F	I/T		DE/F/I/T
15. Engine auxiliaries: Provide complete lubrication, filtration, cooling, pre-lube, crankcase ventilation, heaters, and instrumentation required for reliable operation.	DE/F/G	I/T		DE/F/I/T/C/G
16. Air filtration and personnel protection: Provide heavy-duty air cleaners, service indicators, and guards for hot, rotating, and hazardous components.	DE/F/G	I/T		DE/F/I/T/G
17. Starting system: Provide dedicated electric starters, batteries, racks or cabinets, cables, disconnects, chargers, monitoring, and DC distribution.	DE/F/G	I/W/T		DE/F/I/W/T/C/G
18. Minimum loading: State minimum stable load, recommended minimum continuous load, permitted duration below recommended load, and low-load effects. <i>Note: Address fuel efficiency, minimum combustion-stability limits, aftertreatment temperature, regeneration where applicable, emissions compliance, maintenance, and other effects of low-load operation. Diesel proposals shall specifically address wet stacking. Natural gas proposals shall address misfire, knock, catalyst-temperature limits, and ignition-system considerations.</i>	R/G		A/R	R/G
19. Unit commitment data: Provide proposed unit commitment at facility outputs from 1 MW through maximum output, including number of units online and percent loading. <i>Note: Provide fuel consumption at 1 MW increments and at 25%, 50%, 75%, 90%, and 100% unit load.</i>	R/G		A/R	R/G
20. Transient performance: State load acceptance, ramp rate, start and synchronization time, voltage/frequency dip and recovery, and motor-starting capability.	G		A/R	G
21. Performance guarantees: Guarantee net output, fuel consumption, auxiliary load, transient performance, and operating-mode capability. <i>Note: State standards, tolerances, fuel basis, and remedies.</i>	G		A	G
3. OUTDOOR ENCLOSURES AND PACKAGE ACCESSORIES				
22. Outdoor enclosure: Provide a self-contained, weather-protective, sound-attenuated enclosure for each unit.	DE/F/G	I	A/R	DE/F/I/T/G
23. Access and maintenance: Provide lockable doors, safe egress, removable panels, lifting provisions, and major-maintenance access.	DE/F	I		DE/F/I
24. Lighting, receptacles, and heating: Provide interior LED lighting, GFCI receptacles, and thermostatic heating. <i>Note: Supplier shall identify required external AC circuits and black-start availability.</i>	DE/F	I/W/T		DE/F/I/W/T
25. Ventilation: Provide fans, louvers, dampers, controls, guards, and full-load enclosure heat balance.	DE/F/G	I/W/T		DE/F/I/W/T/C/G
26. Detection and emergency stop: Provide fire detection, fuel-leak detection, local alarms, remote contacts, and exterior emergency-stop station.	DE/F	I/W/T	A/R	DE/F/I/W/T/C
27. Internal package completion: Complete all internal package piping, tubing, wiring, supports, labels, and terminations. <i>Battery Limit: Supplier shall clearly identify all external connection points on drawings and the completed DOR.</i>	DE/F/T	I/T		DE/F/I/W/T/C
4. FUEL SUPPLY, STORAGE, AND DELIVERY				
<i>Note: Items 28 through 34 apply only to diesel-fueled proposals. Items 35 through 40 apply only to natural gas-fueled proposals. Item 41 applies only when optional propane backup capability is offered.</i>				
28. Diesel fuel-system concept: Recommend individual sub-base/day tanks or common bulk storage with day tanks for the base and expanded configurations. <i>Note: Identify advantages, footprint, permit impacts, redundancy, and expansion provisions.</i>	DE/R	DE/R	A/R	DE/R

Scope Item / Description	Supplier	Contractor	KYMEA	Turnkey
29. Diesel fuel autonomy: Provide base pricing for 12 hours of full-load operation and alternate pricing for 24 hours. <i>Note: State gross, usable, reserve, and unusable volumes based on net dependable output at full load.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
30. Diesel fuel tanks: Provide listed double-wall tanks with vents, drains, inspection access, containment, and weather protection.	DE/F/G	I/T	A/R	DE/F/I/T/G
31. Diesel fuel instrumentation and protection: Provide continuous level, high/low alarms, overfill prevention, leak detection, and emergency shutdown.	DE/F	I/W/T	A/R	DE/F/I/W/T/C
32. Diesel fuel fill and transfer system: Provide truck fill connection, spill container, grounding point, pumps, strainers, valves, and controls as required. <i>Battery Limit: Supplier shall define package connections; field piping and common systems are by Contractor unless included in Supplier scope.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
33. Diesel fuel piping: Provide package piping, flexible engine connections, isolation, filtration, and required cooling. <i>Battery Limit: Supplier scope ends at identified package flanges or unions. Supplier shall approve external piping design.</i>	DE/F/G	I/W/T		DE/F/I/W/T/C/G
34. Diesel fuel polishing: Provide separately priced fuel-polishing system and recommended maintenance schedule.	DE/F/Price	I/W/T	A/R	DE/F/I/W/T/C
35. Natural gas service basis: Identify required pressure, flow, temperature, heating value, methane number, gas quality, and maximum two-unit and three-unit demand.	DE/R/G	R	A/R	DE/R/G
36. Utility natural gas coordination: Coordinate service availability, utility meter and regulator requirements, service agreement requirements, point of delivery, and utility-furnished facilities.	R	R	A/R	DE/R
37. Natural gas receiving station: Provide site piping, isolation, filtration, regulation, overpressure protection, heating where required, metering where not utility-furnished, monitoring, venting, and emergency shutdown from the utility point of delivery to the engine-package battery limits. <i>Battery Limit: Contractor shall design and furnish the common natural gas receiving station and site gas-distribution piping from the utility point of delivery through a flanged connection at each engine-package gas inlet. Supplier shall define and guarantee the required pressure, flow, temperature, gas quality, flange rating, and other interface requirements at each engine-package gas inlet.</i>	R/G	DE/F/I/W/T	A/R	DE/F/I/W/T/C/G
38. Engine gas trains: Provide package gas trains, double-block-and-bleed or OEM-required shutoff arrangement, regulators, filters, flexible connections, pressure and temperature instrumentation, vent valves, leak testing provisions, and controls.	DE/F/T/G	I/W/T	A/R	DE/F/I/W/T/C/G
39. Gas compression and heating: Identify and provide any gas compression or heating required for the proposed engines. <i>Note: Supplier shall furnish any required gas compressor or gas-heating package, including any auxiliary equipment, controls, stored-energy systems, or starting provisions required to support the specified black-start capability. Contractor shall unload, install, connect, field wire, and test the Supplier-furnished equipment.</i> <i>Battery Limit: Supplier shall identify the compressor or heater inlet and outlet connections and all required electrical, controls, drainage, ventilation, foundation, and black-start support interfaces. If common equipment serves multiple engine-generator sets, the Supplier shall size the equipment for the Base Proposal and identify the modifications required for the optional third unit.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
40. Gas detection and ventilation: Provide combustible-gas detection, alarms, shutdown interfaces, ventilation interlocks, and hazardous-area requirements applicable to the natural gas installation.	DE/F/T/G	I/W/T	A/R	DE/F/I/W/T/C/G
41. Optional propane backup system: If propane backup is offered, design and furnish the storage, vaporization, regulation, heating, gas train, controls, detection, emergency shutdown, and fuel-transfer equipment required for 12-hour and 24-hour full-load options.	DE/F/T/G/Price	I/W/T	A/R	DE/F/I/W/T/C/G/Price
5. COOLING, COMBUSTION AIR, AND EXHAUST				
42. Cooling system: Provide integral radiator, fans, drives, guards, expansion provisions, controls, and package piping.	DE/F/G	I/T		DE/F/I/T/C/G
43. Cooling connections and coolant: Provide valves, drains, vents, flexible connections, approved coolant, and fill provisions. <i>Battery Limit: Supplier shall identify any external piping, power, and control connections.</i>	DE/F	I/W/T		DE/F/I/W/T/C
44. Cooling performance: Guarantee rated output at design ambient and site elevation and demonstrate acceptable temperatures at full load.	G	T	A/WI	T/C/G

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45. Combustion air: Provide intake path, weather protection, screening, ducts, flexible connectors, and filters within package limits.	DE/F/G	I/T		DE/F/I/T/G
46. Exhaust system: Provide flexible connector, silencer, required emissions aftertreatment, expansion joints, drains, and package-side piping. <i>Battery Limit: Supplier shall define exhaust outlet battery limit and review the complete installed system for backpressure and thermal growth.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
47. Stack and supports: Supplier shall design and furnish the stack, supports, guides, insulation, cladding, sampling ports, access provisions, and weather termination. Contractor shall install, connect, and test the Supplier-furnished components. <i>Note: Final stack height is subject to air permitting and dispersion requirements.</i>	DE/F/R/G	I/W/T	A/R	DE/F/I/W/T/G
48. Exhaust guarantee: Provide certified backpressure calculation and aftertreatment operating limits for the complete installed system.	G	R	A/R	G
6. 12.47 kV ELECTRICAL SYSTEM AND INTERCONNECTION				
49. Generator construction: Provide form-wound generator, suitable insulation, PMG excitation, digital AVR, heaters, RTDs, and bearing monitoring.	DE/F/G	I/T		DE/F/I/T/C/G
50. Terminal and sensing equipment: Provide phase and neutral terminal boxes, protection/metering CTs, voltage sensing, and grounding pads. <i>Battery Limit: Supplier shall coordinate cable sizes, CT ratios, accuracy classes, and termination space with KYMEA.</i>	DE/F	I/W/T	A/R	DE/F/I/W/T/C
51. Surge and neutral grounding: Provide surge protection and neutral grounding equipment required by the final design. <i>Note: KYMEA establishes final grounding philosophy and equipment ratings.</i>	DE/F	I/W/T	A/R	DE/F/I/W/T/C
52. Generator step-up transformers: If the proposed generator terminal voltage differs from the 12.47 kV facility interconnection voltage, provide generator step-up transformers complete with high- and low-voltage terminations, surge protection, grounding provisions, temperature monitoring, accessories, and certified electrical and physical data. <i>Battery Limit: Supplier scope includes each generator step-up transformer and its high- and low-voltage terminal provisions. Contractor scope begins at the identified transformer terminals and includes unloading, installation, grounding, external cabling, connections, and field testing.</i>	DE/F/G	U/I/W/T	A/R	DE/F/D/U/I/W/T/C/G
53. Common 15 kV switchgear: Provide metal-clad or other suitable listed switchgear with generator, transformer-primary where applicable, and utility-intertie breakers. <i>Note: Bus, control, and physical provisions shall accommodate the optional third identical unit.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
54. Point of interconnection: Connect the facility to Olive Hill's single distribution feeder adjacent to the AEP 69 kV substation, near KYMEA's PJM/AEP billing meter. <i>Note: Final breaker location, revenue metering, ownership, demarcation, and protection requirements shall be confirmed with AEP, Olive Hill, and KYMEA during final design.</i>	R	DE/F/I/W/T	A/R	DE/F/I/W/T/C
55. Protection, synchronizing, and metering: Provide relay hardware, synchronizing equipment, test switches, lockouts, and meters. <i>Note: KYMEA will establish the final protection philosophy and relay settings.</i>	DE/F	I/W/T	A/R	DE/F/I/W/T/C
56. Station service and control power: Provide station-service transformer and AC/DC control-power systems sized for the base facility and third-unit expansion.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
57. Field cables and grounding: Provide 15 kV cables, low-voltage/control cables, raceways, terminations, and site grounding grid. <i>Battery Limit: Base Supplier furnishes package-side termination hardware; Contractor furnishes external cables and raceways unless otherwise stated.</i>	F	DE/F/I/W/T	A/R	DE/F/I/W/T
58. System studies: Provide complete OEM data for short-circuit, coordination, arc-flash, grounding, motor-starting, and relay-setting studies. <i>Note: Studies are by KYMEA in the base arrangement and may be included in the turnkey alternate.</i>	R		DE/A	DE/R

Scope Item / Description	Supplier	Contractor	KYPEA	Turnkey
7. CONTROLS, NO-EXPORT, ISLANDING, AND SCADA				
59. Local generator controls: Provide OEM controller and local HMI for monitoring, protection, alarms, and operation.	DE/F/G	I/W/T		DE/F/I/W/T/C/G
60. Master plant control: Provide controller coordinating the two initial units and optional third unit.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
61. Grid-parallel operation: Provide automatic synchronization, kW dispatch, ramping, and reactive-power or power-factor control.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
62. No-export control: Continuously monitor flow at the Olive Hill/AEP billing point and regulate generation to prevent unintended export. <i>Note: Provide adjustable import margin, fast runback, unloading, unit trip logic, meter-failure response, and communications-failure response.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
63. Load-following and unit commitment: Automatically start, stop, load, and unload units to follow available Olive Hill load while maintaining engines within recommended loading range. <i>Note: Controls shall account for intrahour load variability, generator ramp rate, meter latency, and optional third-unit operation.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
64. Island operation: Provide isochronous frequency control, voltage control, load sharing, and stable operation for one, two, or three units.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
65. Black-start sequence: Provide equipment and logic to start without normal AC, establish a dead bus, and add load in controlled stages. For natural gas-fueled proposals, identify all fuel-system equipment requiring AC or DC power and demonstrate that the complete natural gas fuel system will support black start without normal external AC service. If gas compression, heating, ventilation, or other fuel-system auxiliaries require external power, include the equipment and starting sequence necessary to make those systems available during black start. <i>Note: Final island boundary, breaker authority, load-shed sequence, AEP permissives, and transfer-trip requirements remain to be established.</i>	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
66. Resynchronization and load shedding: Provide interfaces for staged load shedding and controlled return from island to grid-parallel operation.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
67. SCADA interface: Provide Modbus TCP and/or DNP3, complete point list, register map, remote commands, and time synchronization. <i>Battery Limit: Supplier provides package interfaces and documentation. KYPEA provides SCADA master programming and external communications network unless turnkey.</i>	DE/F/T	I/W/T	A/R	DE/F/I/W/T/C
68. Network and cybersecurity: Provide package network equipment, diagrams, ports/services, backups, licenses, account management, and owner-controlled vendor access.	DE/F/R	I/W/T	A/R	DE/F/I/W/T/C
69. Control documentation and testing: Provide sequence, cause-and-effect matrix, permissives/interlocks, factory simulation, and end-to-end test support.	DE/R/T	T	A/WI	DE/R/T/C
8. CIVIL, STRUCTURAL, AND SITE WORK				
70. Survey and geotechnical data: KYPEA shall furnish available topographic, utility-location, and geotechnical information. The Contractor shall identify and perform any additional investigation required for final civil and structural design.		DE/F	F/A	DE/F
71. Site layout: Develop layout for two units, optional third unit, fuel system, switchgear, access, drainage, and maintenance clearances.	R	DE/R	A/R	DE/R
72. Grading and drainage: Provide clearing, excavation, grading, erosion control, stormwater drainage, and restoration.		DE/F/I	A/R	DE/F/I
73. Foundations and anchorage: Provide foundations, pads, anchors, embeds, grout, barriers, and structural supports. <i>Note: Foundation and anchorage design shall use certified Supplier loads and preserve provisions for the optional third-unit expansion.</i>	R	DE/F/I/T	A/R	DE/F/I/T
74. Access and security: Provide road and crane access, fuel-delivery and emergency-access requirements applicable to the proposed fuel system, fencing, gates, bollards, lighting, and signage.		DE/F/I/W/T	A/R	DE/F/I/W/T

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75. Underground systems: Provide duct banks, conduits, grounding, drains, and identified utility crossings.		DE/F/I/W/T	A/R	DE/F/I/W/T
9. ENVIRONMENTAL, PERMITTING, AND ACOUSTICS				
76. Air permitting: KYMEA/environmental consultant prepares permit applications; Supplier provides complete certified technical data. <i>Note: Turnkey proposer may provide permitting support, but KYMEA remains applicant unless agreed otherwise.</i>	R/G		DE/A	R/G
77. Emissions compliance: Furnish non-emergency stationary engine configuration and aftertreatment satisfying applicable permit and federal requirements.	DE/F/G	I/W/T	A/R	DE/F/I/W/T/C/G
78. Monitoring and compliance testing: Provide hour meters, required monitoring interfaces, sampling ports, access, and OEM support for stack testing.	DE/F/R	I/W/T	A	DE/F/I/W/T/C
79. Noise requirement: Design the complete operating facility to a preliminary limit of 65 dBA at the nearest off-site property line or occupied receptor. <i>Note: More restrictive local requirements shall govern. Provide a 60 dBA alternate if practical.</i>	DE/G	I/T	A/R	DE/F/I/T/G
80. Acoustic analysis: Provide octave-band data and cumulative model for enclosures, radiators, air paths, exhaust, and multiple-unit operation.	DE/G		A/R	DE/G
81. Sound testing: Perform field sound survey at agreed receptors and correct deficiencies within the responsible party's scope.	R/G	T	A/WI	T/G
82. Spill and stormwater support: Supplier shall provide equipment-specific information required for SPCC and stormwater plans. KYMEA shall prepare or coordinate the required plans. Contractor shall implement and maintain construction-phase erosion-control and stormwater-compliance measures within its scope.	R	DE/F/I/R	DE/A	DE/F/I/R
10. ENGINEERING, DOCUMENTATION, AND SUBMITTALS				
83. Certified design package: Provide project-specific arrangements, dimensions, weights, centers of gravity, loads, clearances, and connection locations.	R/G		A/R	R/G
84. Process and electrical drawings: Provide P&IDs, one-lines, wiring diagrams, cable schedules, panel drawings, network diagrams, and grounding details.	R	R	A/R	R
85. Controls documentation: Provide I/O list, SCADA map, sequences, cause-and-effect matrix, software backups, and configuration files.	DE/R		A/R	DE/R
86. Performance data: Provide auxiliary loads, heat rejection, fuel consumption, emissions, acoustics, transient data, minimum-load data, and unit commitment.	R/G		A/R	R/G
87. Equipment submittals: Provide data sheets, bills of material, certifications, and identification of loose-ship and installer-supplied items.	R	R	A/R	R
88. O&M and spare-parts documents: Provide manuals, maintenance schedules, troubleshooting guides, and priced spare-parts recommendations.	R		A/R	R
89. Native files and licenses: Provide owner-use configuration tools, relay files for Supplier devices, PLC/HMI backups, licenses, and access credentials.	R		A	R
90. As-built records: Provide final drawings, settings, configurations, and test records incorporating field changes.	R	R	A/R	R
11. DELIVERY, TESTING, TRAINING, AND WARRANTY				
91. Packing and delivery: Provide preservation, packing, cargo insurance, freight, permits, route review, and delivery to site.	F/D/G			F/D/G
92. Unloading and setting: Provide crane, rigging, unloading, placement, leveling, alignment, grouting, and anchorage. <i>Note: The OEM representative shall verify equipment installation, alignment, and other applicable installation requirements before startup.</i>	R	U/I/T	A/WI	U/I/T

Scope Item / Description	Supplier	Contractor	KYMEA	Turnkey
93. Storage and receipt inspection: Provide storage maintenance, heaters, battery care, inspections, and damage/shortage documentation. <i>Note: Upon delivery and unloading, Contractor assumes responsibility for receipt inspection, secure storage, preservation, heater power, battery maintenance, and documentation of damage or shortages in accordance with Supplier instructions.</i>	R	F/I	A/WI	F/I
94. Factory testing: Perform standard factory tests of each engine-generator set and factory acceptance testing of the controls and switchgear; provide certified results and witness options.	T/G		A/WI	T/G
95. Startup and paralleling: OEM-supervise startup and commission synchronizing, dispatch, reactive control, and AEP intertie functions.	C/G	T	A/WI	T/C/G
96. Island and black-start testing: Demonstrate intentional islanding, load sharing, black start, dead-bus energization, load shedding, and resynchronization.	C/G	T	A/WI	T/C/G
97. No-export and load-following test: Demonstrate stable no-export control during step changes and representative intrahour load variations. <i>Note: Test meter-loss and communications-loss responses and adjustable import margin.</i>	C/G	T	A/WI	T/C/G
98. Performance tests: Demonstrate 100% net dependable output, fuel consumption, temperatures, emissions-system operation, and sound compliance.	G	T	A/WI	T/C/G
99. Reliability run: Complete continuous facility reliability run under agreed operating conditions and modes.	G	T	A/WI	T/C/G
100. Temporary load bank: Provide optional temporary resistive/reactive load bank if Olive Hill load cannot support required testing.	F/Price	I/W/T	A/R	F/I/W/T/Price
101. Training: Provide project-specific operator, maintenance, electrical, controls, cybersecurity, and safety training.	R		A	R
102. Tools, diagnostics, and spares: Provide required tools and commissioning spares; separately price two-year operating and capital spares.	F/Price		A	F/Price
103. Warranty: Provide coordinated equipment and performance warranties covering all Supplier-furnished components and guaranteed results. <i>Note: State commencement, duration, tolerances, exclusions, and remedies; protect KYMEA against delayed project startup.</i>	G		A	G
104. Extended warranty and long-term service support: Separately price the extended warranty and LTSA options identified in RFP Form 3. The LTSA proposal shall describe preventive maintenance, scheduled and major-maintenance support, emergency field-service response, long-term parts support, exclusions, escalation provisions, and other available service coverage.	R/Price		A	R/Price