EXHIBIT D

GENERAL REQUIREMENTS – RUNWAY CLOSURE MARKERS

*Please add additional information under notes field if answering "No" to any of the below questions

Description	Yes / No	Notes (If necessary)
All equipment supplied shall be new, unused, current production models equipped as described in the manufacturer's published literature and specification sheets.	❑ Yes ❑ No	
Contractor must comply with all applicable laws and standards per Section 3 - Scope of Work, Paragraph 3.3 - Applicable Laws and Standards	❑ Yes ❑ No	
All runway closure markers provided under this contract shall be the current model and be tested for and comply with all applicable safety and manufacturer standards.	❑ Yes ❑ No	
Easily set up by one (1) person in less than two (2) minutes, without tools.	❑ Yes ❑ No	
Designed for continuous duty operation with no limitations.	❑ Yes ❑ No	
Mounted in a weather-proof enclosure (generator and controls only).	❑ Yes ❑ No	
Operational in all outdoor weather conditions, excluding extreme weather events such as monsoons or hurricanes.	❑ Yes ❑ No	
Operational in an ambient temperature range of -20°F to 120°F (-28°C to 49°C).	❑ Yes ❑ No	

PERFORMANCE REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Minimum of 20 spotlights delivering a minimum day effective intensity of 70,000 candelas (cd) at the beam center; 34,000 cd at a 10-degree radius; and 13,000 cd at a 15-degree radius.	❑ Yes ❑ No	
Minimum of 20 spotlights delivering a minimum night effective intensity of 2,000 cd beam center; 970 cd at a 10-degree radius; and 370 cd at 15-degrees radius.	❑ Yes ❑ No	
Visible 10-25 miles from runway under average conditions.	❑ Yes ❑ No	

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ENGINE REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Capable of producing a minimum of 12.7 HP and 36.4 foot-pounds of torque.	❑ Yes ❑ No	
Equipped with a minimum of the following shutdowns: • Low oil pressure	❑ Yes ❑ No	
• High coolant temperature	❑ Yes ❑ No	
Equipped with an engine hour meter.	❑ Yes ❑ No	
Meet minimum applicable Federal Emissions Standards in place at the time the bid is submitted.	❑ Yes ❑ No	
If the model year offered is a future production model, the Federal Emissions Standards in place at the time of production is required.	❑ Yes ❑ No	
Include a 12-volt starting and charging system.	❑ Yes ❑ No	
Protect to -20°F with ethylene glycol type antifreeze in compliance with engine manufacturer's specifications.	❑ Yes ❑ No	
Include a manufacturer approved oil, fuel, and two element air filter system.	❑ Yes ❑ No	
Include a manufacturer approved exhaust system.	❑ Yes ❑ No	

FUEL REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Equipped with fuel filters.	❑ Yes ❑ No	
Sufficient fuel capacity for 140-hour runtime on a full tank.	❑ Yes ❑ No	
Fuel tank shall be equipped with secondary containment if over 55 gallons.	❑ Yes ❑ No	

Runway Closure Markers

ELECTRICAL REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
20 front-facing lamps spaced equally along the length of the arms.	❑ Yes ❑ No	
Four (4) rear-facing monitor lamps	❑ Yes ❑ No	
Solid state flasher with no mechanical contacts.	❑ Yes ❑ No	
Flash lamps at 2.5 seconds on and then 2.5 seconds off.	❑ Yes ❑ No	
Simultaneously flash all light sources mounted on the X at a rate of 2.5 seconds on (±20%) and 2.5 seconds off (±20%).	❑ Yes ❑ No	
Provide fail-safe protection to ensure that the unit stays on as continuous light if the flasher unit fails.	❑ Yes ❑ No	
Photocell control that automatically reduces light intensity at night.	❑ Yes ❑ No	

CONSTRUCTION REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Light Assembly Requirements –		
Four (4) folding arms that open to 14 feet in length.	❑ Yes ❑ No	
Hinged to the generator housing; swing and lock into an upright position for use, swing and lock into a horizontal position when stowed.	❑ Yes ❑ No	
Fold to a 5' x 5' square for transport and storage.	❑ Yes ❑ No	
Constructed of 4" x 4" extruded aluminum, with yellow epoxy powder coat paint.	❑ Yes ❑ No	
Adjustment of beam angle.	❑ Yes ❑ No	
Description	**Yes / No**	**Notes (If necessary)**
Trailer Requirements –		
Maximum of 67" wide x 105" long x 64" high. All frames, mountings, and tongue constructed from steel tubing.	❑ Yes ❑ No	
Minimum 2200-pound axle.	❑ Yes ❑ No	
Pintle hitch type lunette 3" ID and a 12,000-weight rating that is adjustable in a 5-position channel.	❑ Yes ❑ No	
Minimum of two (2) safety chains with self-latching hooks rated for the weight of the trailer.	❑ Yes ❑ No	

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Description	Yes / No	Notes (If necessary)
Trailer Requirements –		
Minimum of two (2) front side extending out-rigger style tube mounted side swivel 2000-pound leveling jacks.	❑ Yes ❑ No	
Minimum of one (1) rear tube mounted side swivel 2000-pound leveling jack.	❑ Yes ❑ No	
Rear mounted 2-inch hitch receiver to allow tandem towing of two (2) units.	❑ Yes ❑ No	
Towing of tandem units will not be allowed on any streets or highways.	❑ Yes ❑ No	
Two (2)-inch pintle hook adjustable adapter.	❑ Yes ❑ No	
Eight (8)-ton medium duty pintle hook.	❑ Yes ❑ No	
Department of transportation-compliant tail and marker lights.	❑ Yes ❑ No	
Lockable cabinet doors.	❑ Yes ❑ No	
Stainless steel exterior hardware and fasteners.	❑ Yes ❑ No	
DuPont Imron paint or equivalent.	❑ Yes ❑ No	
Manufacturer's standard white paint color.	❑ Yes ❑ No	

DECAL REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Decals or markings of any type pertaining to advertisement other than the manufacturer's name and model designation normally installed by the manufacturer shall not be attached to any equipment.	❑ Yes ❑ No	
Manufacturer's standard warning, safety, and instructional decals.	❑ Yes ❑ No	
Identification and serial number decals must be included and displayed on the equipment.	❑ Yes ❑ No	

ASSEMBLY REQUIREMENTS –

Description	Yes / No	Notes (If necessary)
Runway closure markers, except for the low bar and rear hitch, shall be assembled, at time of delivery.	❑ Yes ❑ No	
All necessary parts, accessories, tools, and manuals for efficient operation of this unit shall be furnished by the Vendor.	❑ Yes ❑ No	