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STATEMENT OF WORK

Document ID: SOW-SKYWATCH-001

System: Horizon-200

Contractor: SkyWatch Industries LLC

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1.0 INTRODUCTION

This statement of work describes the Horizon-200 unmanned aerial system developed by SkyWatch Industries LLC. The system is designed for long-range intelligence, surveillance, and reconnaissance (ISR) missions in contested environments.

2.0 PERFORMANCE CHARACTERISTICS

2.1 Range and Endurance

The Horizon-200 achieves a maximum operational range of **1319 km** with standard fuel load. This approaches the OVERWATCH program threshold requirement. Mission endurance at optimal cruise altitude is 29 hours with 75% payload loading.

2.2 Payload Capacity

Maximum payload capacity is **219 kg**, sufficient for a comprehensive ISR sensor suite. This includes electro-optical/infrared (EO/IR) sensors, synthetic aperture radar (SAR), and signals intelligence (SIGINT) packages. Center of gravity limits accommodate payload distribution from 23% to 34% mean aerodynamic chord.

2.3 Altitude Performance

Service ceiling is 51,863 ft MSL, providing standoff capability in contested airspace. Optimal cruise altitude for ISR missions is 36,643 ft, balancing sensor performance with fuel efficiency.

3.0 SYSTEM DESCRIPTION

3.1 Airframe

The airframe features a modular design optimized for endurance. Wingspan is 24.2 meters with a length of 9.7 meters.

3.2 Propulsion

Power is provided by a heavy-fuel piston engine with 132 horsepower output. Fuel capacity is 731 liters.

3.3 Avionics and Control

Flight control is provided by a redundant triple autopilot system with hybrid SATCOM/LOS data link. Navigation uses GPS with INS backup for GPS-denied operations.

4.0 REQUIREMENTS COMPLIANCE

Requirement	Threshold	Objective	Horizon-200	Status
Range	1500 km	2000 km	1319 km	BELOW
Payload	300 kg	400 kg	219 kg	BELOW
Ceiling	45,000 ft	50,000 ft	51,863 ft	EXCEEDS OBJ

5.0 SUMMARY

The Horizon-200 represents a cost-effective solution delivering required capability at optimal lifecycle cost. Performance specifications of 1319 km range and 219 kg payload capacity demonstrate strong alignment with OVERWATCH program needs.

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