HB1038 Cost Estimates

Provided by Northern Plains UAS Test Site
February 2025

NORTHERN PLAINS
UAS TEST SITE

HB1038 – Section 1 Cost Estimates

UAS Replacement Program Cost Estimates

Task	Cost Estimate
Administering the Program	**$1,850,000**
Personnel Support	
Strategic Planning & Analysis	
Grant Management & Dispersement	
Program Eligibility	
NDAA Compliance Verification	
Procurement Management (including Volume Discount)	
Communication & Outreach	
Contract Management, Analytics & Reporting	
Centralized System Management	**$1,200,000**
Inventory Establishment & Management	
Lifecycle Management	
Threat & Vulnerability Assessment	**$1,000,000**
Collection	
Inventory Management	
Resale, Billing and Collection	
Decommissioning	
Regulatory & BVLOS Guidance	**$1,250,000**
TBVLOS Operational Approvals	
BVLOS Operational Approvals	
System Compatibility & Onboarding	**$1,000,000**
Compatibility Analysis	
UAS Aircraft Credentialing	
Pilot Credentialing	
Training	**$700,000**
UAS Pilot Proficiency (~160 pilots)	
UAS Aircraft Specific Training & Maintenance (~160 pilots)	
"Train the Trainer" Instructional Training (~40 instructors)	
UAS and Systems Replacement	**$8,675,000**
(75 @ $1,000/UAS)	
(150 @ $30,000/UAS)	
(82 @ $50,000/UAS)	
Assumption of 307 eligible for replacement per ND Leg. Council Inquiry	
SUM	**$15,675,000**

NORTHERN PLAINS
UAS TEST SITE

HB1038 – Section 1 Cost Estimates
(UAS/Drone & System Replacement Cost Only)

FRONTIER PRECISION
How You Measure Matters

INITIAL ESTIMATES

Frontier Precision - BLUE/NDAA UAS Offerings 2025
*Items are subject to change due product updates

Feb-25

NDAA COMPLIANT UAS	CAPABILITY PACKAGE	COST
ACSL Vision Aerial V2648 SwitchBlade-Elite 2.5	SwitchBlade-Elite 2.5 tricopterIncludes:- Powered, retractable landing gear- Remote ID- Herelink ground cont	$12,601
ASIO X KMC0001-02.00_BuHo	ASIO X DroneIncludes:- Blue Herelink	$49,995
Sentaero 5 (BVLOS)	Rugged Storage Cases, Manual Transmitter, 915 MHz Manual C2 Datalink, 3-mile 2.4GHz Primary C2 Datalink, 4	$87,736
KHRONOS PAYLOAD - NEXTVISION RAPTOR CAMERA	KHRONOS Payload with NextVision Raptor Camera	$44,000
Alta X + Pilot Pro (DIU Blue)	Alta X drone with Pilot Pro compliant with DIU Blue UAS standards.	$32,225
BLUE UAS - IF1200 - SRoC + Doodle Labs 2450 Radio	IF1200A Hexacopter, SRoC + Doodle Labs 2450 Radio Ground Control Station. Includes: 1 Aircraft, 2 Spare Foldi	$54,450
PF728231	Parrot ANAFI USA GOV US (Updated SKU No Sun Visor or Shoulder Strap)	$14,000
Vector Air Platform - 4260574667856	Starting Vector Air Platform to compose the desired UAV. Compatible with all gimbaled Sensors. Transport cas	$133,250
RESEPI Ouster REV7 OS1-64		$43,500
RESEPI XT32 w/ 24 MP Camera		$30,650
Skydio X10 Ready Kit (2.4/5 GHz, IR) NA + VT300-Z	Kit includes one (1) Skydio X10 Vehicle with Sensor Package (2.4/5 GHz, IR) NA + VT300-Z, one (1) Enterprise C	$16,192
SIRAS TV128+ (no-R) Bundle w/ 1 Pair Batteries		$10,664
Vision Aerial V2651 Vector 2.5 - Blue	Blue Vector 2.5 hexacopter droneIncludes:- Blue Herelink ground control station- Waterproof Pelican transpo	$20,241

NORTHERN PLAINS
UAS TEST SITE

HB1038 – Section 1 Cost Estimates
(Enterprise Data Management Addition)

INITIAL ESTIMATES

"An enterprise uncrewed aerial vehicle data management solution implemented under this section must ensure all data collected, transmitted, stored, and consumed by an uncrewed aerial vehicle remain under the control of the state."

- **Commercial Data Management Solution - $2,000,000 annually**
  - *Assumption is informed by one supplier estimate, uncertainty on additional installation or setup costs.*

NORTHERN PLAINS
UAS TEST SITE

HB1038 – Section 2 Cost Estimates
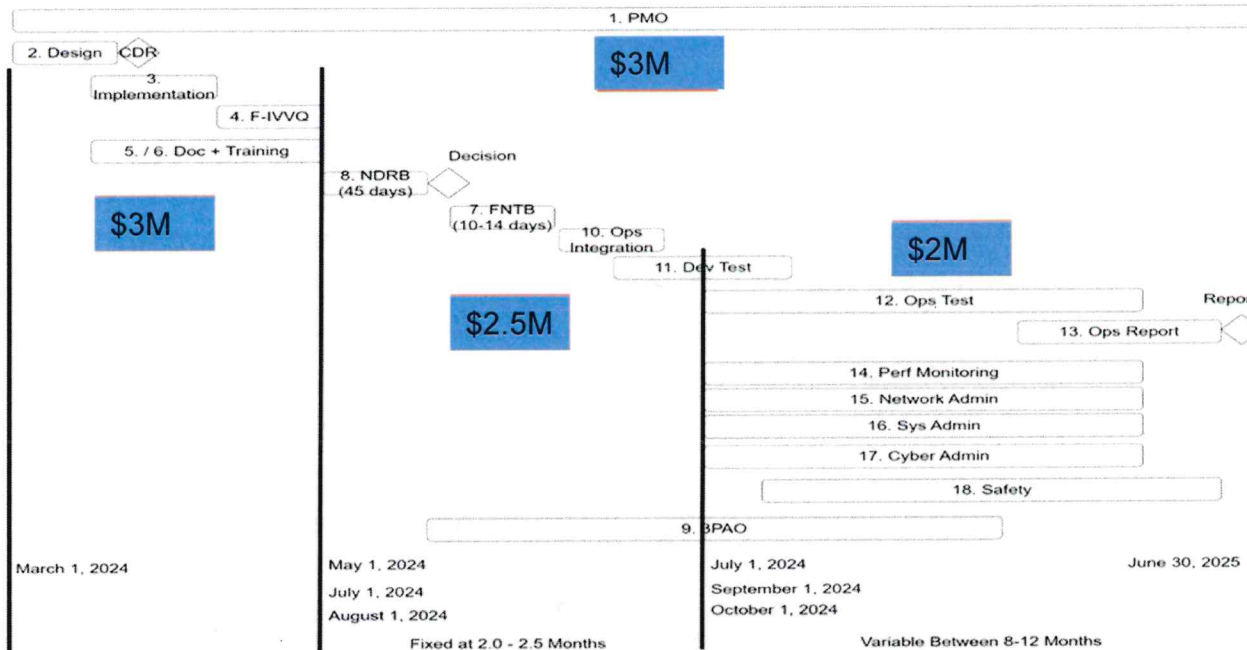
VANTIS

- Budget (Estimate to Complete): ~$11M **unprogrammed** in current Vantis Appropriation
- Assumptions & Risks:
  - Operational Test flights can continue throughout test period without seasonal interruption (Group IV UAS).
  - Acceptable Enclave design solution for FAA NAS Data Release Board adopted
  - Command, Control and Communications solution accepted by FAA UAS Integration Office and Flight Standards Office for BVLOS operations

Scope:
As a FAA Pathfinder participant, we will conduct development, fielding and operational test of the Federal Radar Data Enclave using Vantis System to establish feasibility and utility of FAA NAS radar data. We will utilize a ground-based surveillance for UAS BVLOS operations and adhere to all applicable security requirements for CUI data handling.

NORTHERN PLAINS UAS TEST SITE

HB1038 – Section 2 Cost Estimates

VANTIS

1. PMO	
2. Design	CDR
3. Implementation	
4. F-IVVQ	
5. / 6. Doc + Training	

$3M

$3M

Decision

8. NDRB (45 days)

7. FNTB (10-14 days)

10. Ops Integration

11. Dev Test

$2M

$2.5M

12. Ops Test — Report

13. Ops Report

14. Perf Monitoring

15. Network Admin

16. Sys Admin

17. Cyber Admin

18. Safety

9. BPAO

March 1, 2024

May 1, 2024
July 1, 2024
August 1, 2024

July 1, 2024
September 1, 2024
October 1, 2024

June 30, 2025

Fixed at 2.0 - 2.5 Months

Variable Between 8-12 Months

PMO Costs include:
NPUASTS Management and Engagement
Thales Systems Engineering
MITRE Support
NDIT Support
Network Application Costs
Security Management
Meetings with the FAA, other regulatory engagement
    i. Bi-weekly meetings and prep.
    ii. Tiger Teams and working groups as required

First time the FAA and Other Agencies have done this—Plan is notional but Indicative activities / durations

NORTHERN PLAINS
UAS TEST SITE