

Federal Aviation Administration

AVS Research, Engineering and Development

AVS RE&D Portfolio:

Unmanned Aircraft Systems Research (A11L)

Research Plan: 2022-2027



Part 1: BLI Definition and Scope

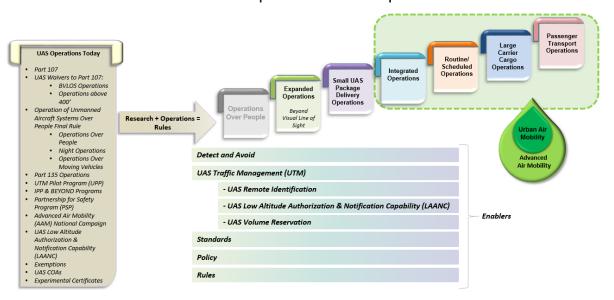
Program Area: Unmanned Aircraft Systems Research (A11L)

FAA Domain: Aviation Performance and Planning

BLI Scope: Unmanned Aircraft Systems Research (UAS)

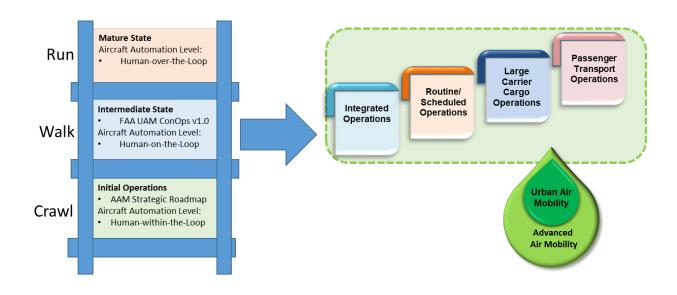
The Federal Aviation Administration's (FAA's) annual five-year Unmanned Aircraft Systems (UAS)/ Advanced Air Mobility (AAM) Integration Research Plan is supported by this Research, Engineering & Development (RE&D) Budget Line Item (BLI) and other appropriations. This BLI supports a one FAA and one Aviation Safety Line of Business (AVS) approach to safe and efficient integration of UAS into the National Airspace System (NAS). Research is the foundation of FAA/AVS UAS/AAM integration activities, and is phased by operational capabilities, providing a streamlined pathway to safe UAS/AAM integration. This phased approach will enable a managed risk-based incremental expansion of airspace access for UAS/AAM in the NAS over the next few years. The FAA is increasingly enabling UAS operations moving from waivers and exemptions on a case-by-case basis to expanded operations through rulemaking including Remote Identification (ID), Operations over People (including Operations over Moving Vehicles and Night Operations). By collecting information and lessons learned, the FAA will be more informed and better positioned for additional UAS/AAM rulemaking. The integration of UAS and AAM into the NAS is moving forward and progressing from operations within visual line of sight to missions beyond visual line of sight (BVLOS). UAS/AAM research informs the development of rules, policies, procedures, standards, decisions, and other outcomes needed to safely integrate UAS/AAM into the NAS.

Categorizing UAS Integration Research: Research Informs Operational Capabilities



01/26/22 1 | Page

In the context of the FAA's UAS/AAM research planning, the AAM aspect focuses on the intersection between UAS and AAM. This intersection includes operations that may be optionally piloted, remotely piloted, or autonomous, and it includes Urban Air Mobility (UAM) and Regional Air Mobility. The FAA will incrementally expand the operational envelope to meet the vision of advancing toward highly autonomous aircraft able to transport passengers in dense airspaces. The FAA recognizes that AAM is growing at an accelerated pace and will leverage advances in UAS technologies and operations to make the vision of full AAM and UAS integration possible. Operational capabilities that intersect with AAM are Integrated Operations, Routine/Scheduled Operations, Large Carrier Cargo Operations, and Passenger Transport Operations. The evolution of AAM follows a crawl-walk-run approach.



01/26/22 2 | Page

Part 2: Service/Office Research Requirements and Research Gap Analysis

1.0 Operational Capability: Expanded Operations

Definition: This research leverages previous part 107 small Unmanned Aircraft Systems (UAS) operations over people and lessons learned to enable safe and secure Beyond Visual Line of Sight (BVLOS) operations.

Primary S/O: Sabrina Saunders-Hodge, AUS-300

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 1

Outcomes:

- Access and Approval: Validation of UAS operations to streamline operational approval processes
- Airspace Integration: Enhancements to the National Airspace System (NAS) including traffic management concepts
- Capabilities and Systems: Deployment of technologies and development of system components
- Certification: UAS design, production, and airworthiness requirements
- Concept Development: Developing and maturing operational scenarios, use cases, and concept
 of operations (ConOps)
- Forecast: Estimating the time and location of types, numbers, and effects of UAS operations
- *Policies:* Policies, regulations, and processes
- **Procedures:** Modification or addition of procedures for Air Traffic Control (ATC), operators, manufacturers, or maintainers
- **Requirements:** Performance thresholds and system constraints
- Standards: Development and validation of UAS safety and security standards
- Training: Qualification of UAS pilots, crew, and supporting workforce

Research Gap Analysis			
Research Questions	Contribution	Research Output	
Expanded Operations Beyond Visual Line of Sight 1.1 What are the safety impacts of expanded operations on the NAS?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Expanded Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).	
1.2 What are viable meteorological	10%	Please refer to Edition 5 (2021-2026) of	
data collection and analysis		the FAA UAS/AAM Integration Research	
capabilities required to effectively		Plan section: Expanded Operations to	

01/26/22 3 | Page

inform performance based standards for expanded operations in the NAS?		view the mapping of research questions and activities outlined for this operational capability and its objective(s).
1.3 What are the system and technology performance requirements for expanded operations in the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Expanded Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
1.4 What are the airworthiness certification requirements for UAS/AAM aircraft and subsystems to enable safe expanded operations in the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Expanded Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
1.5 What are the requirements for automated systems and multiple UAS operations for expanded operations in the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Expanded Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
1.6 What are the methods and systems for optimum UAS/AAM safety and operational data collection and reporting for expanded operations?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Expanded Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 4 | Page

2.0 Operational Capability: Small UAS Package Delivery Operations

Definition: This research will yield the data necessary to extend the capabilities of Expanded Operations to enable small Unmanned Aircraft Systems (sUAS) fleet operators to conduct safe and secure operations for delivering or retrieving packages.

Primary S/O: Sabrina Saunders-Hodge, AUS-300

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 2

Outcomes:

- Access and Approval: Validation of UAS operations to streamline operational approval processes
- Airspace Integration: Enhancements to the National Airspace System (NAS) including traffic management concepts
- Capabilities and Systems: Deployment of technologies and development of system components
- **Certification:** UAS design, production, and airworthiness requirements
- **Concept Development:** Developing and maturing operational scenarios, use cases, and concept of operations (ConOps)
- Forecast: Estimating the time and location of types, numbers, and effects of UAS operations
- Policies: Policies, regulations, and processes
- Requirements: Performance thresholds and system constraints
- Standards: Development and validation of UAS safety and security standards
- Training: Qualification of UAS pilots, crew, and supporting workforce

Research Gap Analysis		
Research Questions	Contribution	Research Output
Small UAS Package Delivery Operations 2.1 What are concepts for low altitude small UAS package delivery operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
2.2 What are the impacts of Advanced Air Mobility (AAM)/Urban Air Mobility (UAM) operations on small UAS package delivery operations in the NAS?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
2.3 What are the Command and Control (C2) standards for multiple small UAS package delivery operations?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view

01/26/22 5 | Page

		the mapping of research questions and activities outlined for this operational capability and its objective(s).
2.4 What are viable meteorological data collection and analysis capabilities required to effectively inform performance based standards for small UAS package delivery operations in the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
2.5 What is the impact of multiple UAS operations on Air Traffic Control (ATC) services?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
2.6 What UAS Traffic Management (UTM) information and requirements are needed for safe UAS integration?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Small UAS Package Delivery Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 6 | Page

3.0 Operational Capability: Integrated Operations

Definition: Based on the integration advancements realized within the previous operational capabilities, this research enables safe and secure Unmanned Aircraft Systems (UAS) and Advanced Air Mobility (AAM) operations to co-exist, with restrictions, in controlled airspace with other aircraft operations and on/around airports. This includes both public and civil UAS and AAM operations with large and small UAS and AAM operations at varying altitudes and on instrument flight rules (IFR) flight plans.

Primary S/O: Sabrina Saunders-Hodge, AUS-300

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 3

Outcomes:

- Airspace Integration: Enhancements to the National Airspace System (NAS) including traffic management concepts
- Capabilities and Systems: Deployment of technologies and development of system components
- Certification: UAS design, production, and airworthiness requirements
- **Concept Development:** Developing and maturing operational scenarios, use cases, and concept of operations (ConOps)
- Forecast: Estimating the time and location of types, numbers, and effects of UAS operations
- Policies: Policies, regulations, and processes
- **Procedures:** Modification or addition of procedures for Air Traffic Control (ATC), operators, manufacturers, or maintainers
- Requirements: Performance thresholds and system constraints
- Standards: Development and validation of UAS safety and security standards
- Training: Qualification of UAS pilots, crew, and supporting workforce

Research Gap Analysis		
Research Questions	Contribution	Research Output
Integrated Operations 3.1 What are requirements for enabling integrated UAS/AAM operations around/on airports?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.2 What are the impacts of automated systems and multiple UAS on ATC services?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 7 | Page

3.3 What are the impacts of UAS/AAM integrated operations on commercial space operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.4 What are the UAS/AAM operational and performance requirements to enable safe integrated operations?	5%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.5 What are the impacts of UAS/AAM operations on demand and capacity management within the National Airspace System (NAS)?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.6 What are viable meteorological data collection and analysis capabilities required to effectively inform performance based standards for UAS/AAM integrated operations in the NAS?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.7 What are the flight management requirements to enable safe integrated UAS/AAM operations?	5%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.8 What are viable collection, management and reporting methods for operational and safety data to ensure secure integrated UAS/AAM operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities

01/26/22 8 | Page

		outlined for this operational capability and its objective(s).
3.9 What are the Detect and Avoid (DAA), Command and Control (C2) systems and technology, testing methods and interoperability to enable safe integration of UAS/AAM in the NAS?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.10 What are the requirements for ATC and Operator contingency management for safe integrated UAS/AAM operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
3.11 What are the requirements for UAS detection and mitigation systems to enable safe and secure integrated UAS operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Integrated Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 9 | Page

4.0 Operational Capability: Routine/Scheduled Operations

Definition: This research will yield the data necessary to enable safe and secure regularly scheduled Unmanned Aircraft Systems (UAS) arrivals and departures at airports within Class B, C, and D airspace and permit optionally piloted aircraft, which include operations that intersect with the AAM ecosystem. The Advanced Air Mobility (AAM) ecosystem entails the routine operations of cargo and passengers through rural, suburban, and urban environments. Air Traffic Control (ATC) services will be available to UAS operators filing instrument flight rules (IFR) flight plans.

Primary S/O: Sabrina Saunders-Hodge

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 4

Outcomes:

- Airspace Integration: Enhancements to the National Airspace System (NAS) including traffic management concepts
- Capabilities and Systems: Deployment of technologies and development of system components
- Certification: UAS design, production, and airworthiness requirements
- **Concept Development:** Developing and maturing operational scenarios, use cases, and concept of operations (ConOps)
- Policies: Policies, regulations, and processes
- Standards: Development and validation of UAS safety and security standards

Research Gap Analysis			
Research Questions	Contribution	Research Output	
Routine/ Scheduled Operations 4.1 What are the Air Traffic Management (ATM)-UAS Traffic Management (UTM) data exchange requirements needed for safe routine/scheduled UAS operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).	
4.2 What are the impacts of routine/scheduled UAS operations on ATC services and NAS operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).	

01/26/22 10 | Page

4.3 What are the UAS/AAM operational and performance requirements for safe routine/scheduled operations?	15%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
4.4 What are viable collection, management and reporting methods for operational and safety data to ensure secure routine/scheduled UAS/AAM operations?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
4.5 What are the necessary risk-based assessments to certify UAS/AAM routine/scheduled operations?	15%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
4.6 What are the impacts of routine/scheduled AAM/UAM operations on the NAS?	10%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Routine/Scheduled Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 11 | Page

5.0 Operational Capability: Large Carrier Cargo Operations

Definition: This research will yield the data necessary to enable the safe and secure transport of cargo to be conducted in U.S. domestic airspace. These cargo flights will be remotely piloted or optionally piloted, and intersect with cargo operations expected in the Advanced Air Mobility (AAM) ecosystem. This includes cargo transport by revolutionary aircraft in rural, suburban, and urban environments.

Primary S/O: Sabrina Saunders-Hodge, AUS-300

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 5

Outcomes:

- Capabilities and Systems: Deployment of technologies and development of system components
- Certification: UAS design, production, and airworthiness requirements
- **Concept Development:** Developing and maturing operational scenarios, use cases, and concept of operations (ConOps)
- Forecast: Estimating the time and location of types, numbers, and effects of UAS operations
- Policies: Policies, regulations, and processes
- **Procedures:** Modification or addition of procedures for Air Traffic Control (ATC), operators, manufacturers, or maintainers
- Standards: Development and validation of UAS safety and security standards

Research Gap Analysis			
Research Questions	Contribution	Research Output	
Large Carrier Cargo Operations 5.1 What are the impacts of UAS/AAM large carrier cargo operations on ATC services and National Airspace System (NAS) operations?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Large Cargo Carrier Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).	
5.2 What are the necessary risk-based assessments to certify UAS/AAM for large carrier cargo operations?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Large Cargo Carrier Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).	

01/26/22 12 | Page

5.3 What are the UAS/AAM operational and performance requirements for safe large carrier cargo operations?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Large Cargo Carrier Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
5.4 What are the safety impacts of AAM/UAM large carrier cargo operations on the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Large Cargo Carrier Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
5.5 What are viable meteorological data collection and analysis capabilities required to effectively inform performance based standards for UAS/AAM large cargo carrier operations in the NAS?	20%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Large Cargo Carrier Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 13 | Page

6.0 Operational Capability: Passenger Transport Operations

Definition: This research will yield the data necessary to enable safe and secure remotely and optionally piloted passenger transport operations, including operations that intersect with the Advanced Air Mobility (AAM) ecosystem. This includes passenger transport by revolutionary aircraft in rural, suburban, and urban environments, which will likely use electric Vertical Take-off and Landing aircraft and high levels of automation.

Primary S/O: Sabrina Saunders-Hodge, AUS-300

Secondary S/O: The research efforts to achieve this operational capability will be co-sponsored by multiple Service/Sponsor Offices across the FAA.

S/O Priority: UAS Operational Capability 6

Outcomes:

- Airspace Integration: Enhancements to the National Airspace System (NAS) including traffic management concepts
- Capabilities and Systems: Deployment of technologies and development of system components
- Certification: UAS design, production, and airworthiness requirements
- Concept Development: Developing and maturing operational scenarios, use cases, and ConOps
- Forecast: Estimating the time and location of types, numbers, and effects of UAS operations
- Requirements: Performance thresholds and system constraints
- Policies: Policies, regulations, and processes
- Standards: Development and validation of UAS safety and security standards

Research Gap Analysis		
Research Questions	Contribution	Research Output
Passenger Transport Operations 6.1 What are the necessary risk-based assessments to certify UAS/AAM for passenger transport operations?	25%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Passenger Transport Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
6.2 What are the UAS/AAM operational and performance requirements for safe passenger transport operations?	25%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Passenger Transport Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).
6.3 What are viable meteorological data collection and analysis capabilities required to effectively inform performance based standards for	25%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan Section: Passenger Transport Operations to view the mapping of research questions and activities outlined

01/26/22 14 | Page

UAS/UAM passenger transport operations in the NAS?		for this operational capability and its objective(s).
6.4 What are the impacts of passenger transport AAM/UAM operations on the NAS?	25%	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan section: Passenger Transport Operations to view the mapping of research questions and activities outlined for this operational capability and its objective(s).

01/26/22 15 | Page

Part 3: RE&D Management Team Programming

BLI Planning 3 Year Funding Profile (FY22-24) as of 01/28/2022

YEAR	Appropriation or Formulation Contract Funding (\$)	INITIAL BLI TEAM PLANNING CONTRACT FUNDING – AFN BLI Target minus the Hold Back (\$)	AVS-1 APPROVED CONTRACT FUNDING (\$)
FY22 formulation or appropriation (if known)	\$18,818,909		
FY23 formulation	\$12,187,363		
FY24 AFN funding			
allocation target		\$15,382,159	\$17,657,159

BLI Plan 5 Year Outlook (FY22-27)

Edition 5 (2021-2026) of the FAA UAS/AAM Integration Research Plan maps out research activities needed to integrate UAS into the NAS and identifies the intersection between UAS and AAM operations. The mapping of research activities to FY27 is currently underway and slated for completion by September 30, 2022.

Operational Capability	References for 5 Year Outlook			
Expanded Operations	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
	Research Plan section: Expanded Operations (pages 103-129) for the			
	multi-year outlook of research questions and activities outlined for this			
	operational capability and its objective(s).			
Small UAS Package Delivery	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
Operations	Research Plan section: Small UAS Package Delivery Operations (pages			
	130-136) for the multi-year outlook of research questions and activities			
	outlined for this operational capability and its objective(s).			
Integrated Operations	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
	Research Plan section: Integrated Operations (pages 137-176) for the			
	multi-year outlook of research questions and activities outlined for this			
	operational capability and its objective(s).			
Routine/Scheduled	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
Operations	Research Plan section: Routine/Scheduled Operations (pages 177-186)			
	for the multi-year outlook of research questions and activities outlined			
	for this operational capability and its objective(s).			
Large Carrier Cargo	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
Operations	Research Plan section: Large Carrier Cargo Operations (pages 187-194)			
	for the multi-year outlook of research questions and activities outlined			
	for this operational capability and its objective(s).			
Passenger Transport	Please refer to Edition 5 (2021-2026) of the FAA UAS/AAM Integration			
Operations	Research Plan section: Passenger Transport Operations (pages 195-208)			
	for the multi-year outlook of research questions and activities outlined			
	for this operational capability and its objective(s).			

01/26/22 16 | Page

Part 4: BLI Team Members

Participants Name	Role	Routing Symbol	
Sabrina Saunders-Hodge	BLI Chair	AUS-300	
Scott LeMay	REDMT Voting Member	AVP-200	
John Mixon	REDMT Voting Member	AOV-150	
Doug Rodzon	REDMT Voting Member	AFS-430	
Anthony Tvaryanas	REDMT Voting Member	AAM-600	
Jorge Fernandez	REDMT Voting Member	AIR-610	
Paul Strande	UAS Integration Research Roundtable Principal	AUS	
Jeremy Grogan, Marcus	UAS Integration Research Roundtable Principal	AFS	
Cunningham , Rany Azzi		Ars	
Mike Romanowski , Jorge	UAS Integration Research Roundtable Principal	AIR	
Fernandez		AIN	
Scott Lemay	UAS Integration Research Roundtable Principal	AVP	
James Daum , Mark Ellis, William	UAS Integration Research Roundtable Principal	AOV	
Iverson-Day		AUV	
Carla Hackworth , Kevin Williams	UAS Integration Research Roundtable Principal	AAM	
Dave Buczek , Donald Grampp	UAS Integration Research Roundtable Principal	ATO	
Michael Lukacs , Dipasis Bhadra	UAS Integration Research Roundtable Principal	APO	
John Dermody , Jim Patterson	UAS Integration Research Roundtable Principal	ARP	
Elizabeth Soltys , Meredith Gibbs	UAS Integration Research Roundtable Principal	ASH	

01/26/22 17 | Page