

FAA ACTION		
West Certification Branch		
☐ Approve	☐ Concur	☐ CFRs
☐ Reject	☒ Accept	☐ EASA CS
☐ Acknowledge		☐ CARs
TSO/Project #s: <u>n/a</u>		
Comments: Minor change, revised document in support of the Universal Avionics Systems Corporation database, LOA0016LA & LOA0017LA		
Response Number: <u>776-25-00389</u>		
File Code:		
for WCB Manager		

SVS Periodic and Terrain

Databases

Type 2 FAA Letter of Acceptance

LOA0016LA and LOA0017LA

Appendices A and B

LOG OF REVISIONS

Rev: 00	Released: 9-Sep-2019	Author: Wayne Fisch
All Pages:	Original Release	

Rev: 01 - 21	Released: Various Dates	Revised by: Wayne Fisch
	See appropriate document revision for details	

Rev: 22	Released: 26-Feb-2025	Revised by: Wayne Fisch
Table 2:	Updated compatibility table capturing OEM changes to hardware	
Table 4:	Updated compatibility table capturing OEM changes to hardware	

Rev: 23	Released: 22-Apr-2025	Revised by: Wayne Fisch
Table 1	Updated ASI-QA-2018-0017 from Rev. I to J Updated 035647E-01 from Rev. J to K Added DQR-100012 Rev. A Updated DPRP-200002 from Rev. A to B	
Table 2	Updated compatibility table capturing PN 1277-000001-00 Computer for Navigation and Obstacle databases with associated database information	
Table 3	Updated ASI-QA-2018-0017 from Rev. I to J Updated 035647E-01 from Rev. J to K Updated DQR-100012 from Rev. – to A	

All changes incorporated in this revision are highlighted.

LOA0016LA - Appendix A:

Acceptance of Universal Avionics Systems Corporation aeronautical data process is provided based on the specification and control of the documentation provided in Table 1, compliance with AC 20-153B Section 3.1 “Alternate Means of Compliance” and RTCA/DO-200A, and the compatibility of the delivered data with the equipment listed in Table 2.

Note: The Periodic Navigation and Obstacle Databases are distributed as one database. The database functionality is enabled/disabled at the system level as shown in Table 2.

Document Number	Description
External Database Documents	
Q907-ESG Version A, Rev. 04, June-2018	<i>Configuration Management</i>
ASI-QA-2018-0017 Rev. J, 21-Nov-2024	<i>Database Distribution Work Instructions</i>
ASI-QA-2022-0001 Rev. A, 23-Nov-2023	<i>DB End User Support Work Instruction</i>
T676-AERO Version A, August-2019	<i>Compliance with Aeronautical Database Approval Process</i>
035647E-01 Rev. K, 9-Apr-2025	<i>Plan for Databases Aspects of Certification (PDBAC)</i>
033902E-00 Rev. D, 23-Jun-2019	<i>Synthetic Vision System Functional Requirements Specification</i>
045252E-00 Rev. --, 23-Jan-2019	<i>Loader Functional Requirements Specification</i>
045251E-00 Rev. A, 26-May-2019	<i>Maintenance Function Segment Specification</i>
057761E-00 Rev. A, 6-Jul-2022	<i>Data Quality Requirements ADS</i>
039035E-00 Rev. C, 26-May-2021	<i>DQR of EFVS DB for Jeppesen</i>
059062E-00 Rev. A, 5-Sep-2024	<i>DA EFVS Target DQR</i>
UASC Database Documents	
DQR-100012 Rev A, 14-Apr-2025	<i>Target Data Quality Requirements for the ClearVision Synthetic Vision System Database</i>
DQR-200006 Rev. A, 24-Jan-2024	<i>Data Quality Requirements for the Jeppesen Supplier Data for the Universal Avionics Systems Corporation Helionix Databases</i>
DPRP-200001 Rev. A, 21-Jun-2024	<i>Data Processing Procedures for the Helionix Cyclic Databases</i>
DPRP-200002 Rev. B, 17-Apr-2025	<i>Data Processing Procedures for the Synthetic Vision Systems Periodic Databases</i>

Table 1 – SVS Navigation and Obstacle Periodic Database Procedural Documents

Document Number	Description
BMS Documents	
SOP-ENG-DB-07.01 Rev. 03, 1-Nov-2021	<i>Aeronautical Database Development and Sustainment</i>
SOP-ENG-CM-03.04 Rev. 04, 9-Nov-2020	<i>Aeronautical Databases Configuration Management Plan</i>
SOP-ENG-DB-03.01 Rev. 03, 19-Aug-2016	<i>Aeronautical Database Support Procedures</i>

Table 1 – SVS Navigation and Obstacle Periodic Database Procedural Documents

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
HUD Computer Unit (HUD-CU)	1277-000001-00	N/A	Navigation Data	Part of Periodic DB 902-60-02-00-12 902-60-03-00-12 902-60-04-00-12 902-60-05-00-12 ARINC 615: UNSCC-2AXR-YYCC UNSCC-2AXR-VVWW	N/A	Enabled
HUD Computer Unit (HUD-CU)	1277-000001-00	N/A	Obstacle Data	Part of Periodic DB 902-60-02-00-12 902-60-03-00-12 902-60-04-00-12 902-60-05-00-12 ARINC 615: UNSCC-2BSR-YYCC	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277J-01 MB1277J-02 MB1277J-30	N/A	Navigation Data	Part of Periodic DB 6293AXX-YY ARINC 665: ESLCC-DA1R-XXYY ESLCC-DA2R-VVWW	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277J-01 MB1277J-02 MB1277J-30	N/A	Obstacle Data	Part of Periodic DB 6293AXX-YY ARINC 665: ESLCC-DBSR-XXYY	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277J-40	N/A	Navigation Data	Part of Periodic DB 6293CXX-YY ARINC 665: ESLCC-DPDR-XXYY	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277J-40	N/A	Obstacle Data	Part of Periodic DB 6293CXX-YY ARINC 665: ESLCC-DPDR-XXYY	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277N-00	N/A	Navigation Data	Part of Periodic DB 6293BXX-YY ARINC 615: ESLCC-AA1R-XXYY ESLCC-AA2R-XXYY	N/A	Enabled
HUD Computer Unit (HUD-CU)	MB1277N-00	N/A	Obstacle Data	Part of Periodic DB 6293BXX-YY ARINC 615: ESLCC-ABSR-XXYY	N/A	Disabled

Table 2 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A05-28	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0501 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10A1013 X423C10B1003 SW: E463C01S0510 E463C03S0510	Step 2 Navigation Data	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSS3F_AACC_BB	Enabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 SW: M463C02S0600 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0600 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 SW: E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0800	Step 3 Navigation Data	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSS4F_AACC_BB	Enabled

Table 2 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/Disabled
Multi-Function Display (Continued)	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 SW: M463C02S0800 M463C02S0801 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 SW: U463C02S0900 HW P/Ns: X423C10A1005 X423C10A1008 X423C10A1013 X423C10B1008 SW: U463C02S0910 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1008 X423C10A1011 X423C10A1012 X423C10A1013 X423C10B1003 X423C10B1008 SW: D463C06S1000 D463C06S1000 HW P/Ns: X423C10A1011 X423C10A1012 X423C10A1013 SW: D463C06S1010	Step 3 Navigation Data (Continued)	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSS4F_AACC_BB	Enabled

Table 2 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A05-28	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0501 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 SW: E463C03S0510 E463C01S0510	Step 2 Obstacle Data	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSSS3F_AACC_BB	Enabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 SW: M463C02S0600 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0600 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 SW: E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0800	Step 3 Obstacle Data	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSSS4F_AACC_BB	Enabled

Table 2 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/Disabled
Multi-Function Display (Continued)	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 SW: M463C02S0800 M463C02S0801 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 SW: U463C02S0900 HW P/Ns: X423C10A1005 X423C10A1008 X423C10A1013 X423C10B1008 SW: U463C02S0910 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1008 X423C10A1011 X423C10A1012 X423C10A1013 X423C10B1003 X423C10B1008 SW: D463C06S1000 D463C06S1000 HW P/Ns: X423C10A1011 X423C10A1012 X423C10A1013 SW: D463C06S1010	Step 3 Obstacle Data	Part of Cyclic DB PNs: Helionix-Cyclic-01 Helionix-Cyclic-02 Helionix-Cyclic-03 Helionix-Cyclic-04 Helionix-Cyclic-05 Helionix-Cyclic-06 Helionix-Cyclic-07 Helionix-Cyclic-08 Helionix-Cyclic-09	SSSSS4F_AACC_BB	Enabled

Table 2 – Compatible Components

LOA0017LA - Appendix B:

Acceptance of Universal Avionics Systems Corporation aeronautical data process is provided based on the specification and control of the documentation provided in Table 3, compliance with AC 20-153B Section 3.1 “Alternate Means of Compliance” and RTCA/DO-200A, and the compatibility of the delivered data with the equipment listed in Table 4.

Document Number	Description
External Database Documents	
Q907-ESG Version A, Rev. 04, June-2018	<i>Configuration Management</i>
ASI-QA-2018-0017 Rev. J, 21-Nov-2024	<i>Database Distribution Work Instructions</i>
ASI-QA-2022-0001 Rev. A, 23-Nov-2023	<i>DB End User Support Work Instruction</i>
T676-AERO Version A, Aug-2019	<i>Compliance with Aeronautical Database Approval Process</i>
035647E-01 Rev. K, 9-Apr-2025	<i>Plan for Databases Aspects of Certification (PDBAC)</i>
057761E-00 Rev. A, 6-Jul-2022	<i>Data Quality Requirements ADS</i>
UASC Database Documents	
EP3401 19-Jul-2010	<i>Configuration Management Plan for the Geodatabases</i>
EP3420F 9-Jul-2024	<i>Database Processing Procedures for the Terrain Geodatabases</i>
DQR-100012 Rev A 14-Apr-2025	<i>Target Data Quality Requirements for the ClearVision Synthetic Vision System Database</i>
DQR-200006 Rev. A, 24-Jan-2024	<i>Data Quality Requirements for the Jeppesen Supplier Data for the Universal Avionics Systems Corporation Helionix Databases</i>
DPRP-200000 Rev. A, 6-Sep-2022	<i>Data Processing Procedures for the Helionix Terrain Databases</i>
DPRP-200003 Rev. -, 11-Jul-2024	<i>Data Processing Procedures for the ClearVision Terrain Database</i>
BMS Documents	
SOP-ENG-DB-07.01 Rev. 03, 1-Nov-2021	<i>Aeronautical Database Development and Sustainment</i>
SOP-ENG-CM-03.04 Rev. 04, 9-Nov-2020	<i>Aeronautical Databases Configuration Management Plan</i>
SOP-ENG-DB-03.01 Rev. 03, 19-Aug-2016	<i>Aeronautical Database Support Procedures</i>

Table 3 – Terrain Database Procedural Documents

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
HUD Computer Unit (HUD-CU)	1277-000001-00	N/A	Terrain Data	Part of Periodic DB 902-30-01-00-11 ARINC 615: UNSCC-2TPC-YYNN UNSCC-2TEC-YYNN UNSCC-2TRN-YYNN	N/A	Enabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A05-28	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0501 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 SW: E463C01S0510 E463C03S0510	Step 2 Terrain Elevation and Cultural Data	Part of Noncyclic DB PNs: Helionix-Noncyclic-01 Helionix-Noncyclic-02 Helionix-Noncyclic-03 Helionix-Noncyclic-04 Helionix-Noncyclic-05 Helionix-Noncyclic-06 Helionix-Noncyclic-07 Helionix-Noncyclic-08 Helionix-Noncyclic-09	SSSSSS3F_01CC_BB SSSSSS3F_02CC_BB SSSSSS3F_03CC_BB	Enabled
Multi-Function Display	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 SW: M463C02S0600 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0600 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 SW: E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711	Step 3 Terrain Elevation and Cultural Data	Part of Noncyclic DB PNs: Helionix-Noncyclic-01 Helionix-Noncyclic-02 Helionix-Noncyclic-03 Helionix-Noncyclic-04 Helionix-Noncyclic-05 Helionix-Noncyclic-06 Helionix-Noncyclic-07 Helionix-Noncyclic-08 Helionix-Noncyclic-09	SSSSSS4F_0400_BB SSSSSS4F_0500_BB SSSSSS4F_0600_BB ...* SSSSSS4F_9900_BB	Enabled

(*) Note: The Step 3 Terrain Elevation and Cultural Databases have 95 parts numbers starting at SSSSSS4F_0400_BB to SSSSSS4F_9900_BB. Rather than listing all part numbers, the ... in Table 4 is a representation of a continuation of all database part numbers in between those shown. Each part number database steps in 100 increments.

Table 4 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
Multi-Function Display (Continued)	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C01S0800 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 SW: M463C02S0800 M463C02S0801 HW P/Ns: X423C10A1005 X423C10A1007 X423C10A1008 SW: U463C02S0900 HW P/Ns: X423C10A1005 X423C10A1008 X423C10A1013 X423C10B1008 SW: U463C02S0910 HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1008 X423C10B1003 X423C10B1008 SW: D463C06S1000	Step 3 Terrain Elevation and Cultural Data	Part of Noncyclic DB PNs: Helionix-Noncyclic-01 Helionix-Noncyclic-02 Helionix-Noncyclic-03 Helionix-Noncyclic-04 Helionix-Noncyclic-05 Helionix-Noncyclic-06 Helionix-Noncyclic-07 Helionix-Noncyclic-08 Helionix-Noncyclic-09	SSSSSS4F_0400_BB SSSSSS4F_0500_BB SSSSSS4F_0600_BB ...* SSSSSS4F_9900_BB	Enabled

(*) Note: The Step 3 Terrain Elevation and Cultural Databases have 95 parts numbers starting at SSSSSS4F_0400_BB to SSSSSS4F_9900_BB. Rather than listing all part numbers, the ... in Table 4 is a representation of a continuation of all database part numbers in between those shown. Each part number database steps in 100 increments.

Table 4 – Compatible Components

Nomenclature	Manufacturer's Part Number	OEM's Part Number	Database Description	Database Part Number	OEM Database Part Number	Enabled/ Disabled
Multi-Function Display (Continued)	HW P/Ns: MB0808C-XX MB0808T-XX SW: 1237A06-43	HW P/Ns: X423C10A1005 X423C10A1006 X423C10A1008 X423C10A1011 X423C10A1012 X423C10A1013 X423C10B1003 X423C10B1008 SW: D463C05S1000 D463C06S1000 HW P/Ns: X423C10A1011 X423C10A1012 X423C10A1013 SW: D463C06S1010	Step 3 Terrain Elevation and Cultural Data	Part of Noncyclic DB PNs: Helionix-Noncyclic-01 Helionix-Noncyclic-02 Helionix-Noncyclic-03 Helionix-Noncyclic-04 Helionix-Noncyclic-05 Helionix-Noncyclic-06 Helionix-Noncyclic-07 Helionix-Noncyclic-08 Helionix-Noncyclic-09	SSSSSS4F_0400_BB SSSSSS4F_0500_BB SSSSSS4F_0600_BB ...* SSSSSS4F_9900_BB	Enabled

(*) Note: The Step 3 Terrain Elevation and Cultural Databases have 95 parts numbers starting at SSSSSS4F_0400_BB to SSSSSS4F_9900_BB. Rather than listing all part numbers, the ... in Table 4 is a representation of a continuation of all database part numbers in between those shown. Each part number database steps in 100 increments.

Table 4 – Compatible Components