

<b>FAA ACTION</b>		
<b>West Certification Branch</b>		
<input type="checkbox"/> Approve	<input type="checkbox"/> Concur	<input type="checkbox"/> CFRs
<input type="checkbox"/> Reject	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> EASA CS
<input type="checkbox"/> Acknowledge		<input type="checkbox"/> CARs
TSO/Project #s: _____		
Comments:  		
Response Number: 776-24-00151		
File Code: 8150.2		
for WCB Manager		

## SVS Periodic and Terrain

### Databases

## Type 2 FAA Letter of Acceptance

### LOA0016LA and LOA0017LA

## Appendices A and B

## LOG OF REVISIONS

<b>Rev: 00</b>	<b>Released: 9-Sep-2019</b>	<b>Author: Wayne Fisch</b>
All Pages:	Original Release	

<b>Rev: 01 - 11</b>	<b>Released: Various Dates</b>	<b>Revised by: Wayne Fisch</b>
	See appropriate document revision for details	

<b>Rev: 12</b>	<b>Released: 8-Mar-2023</b>	<b>Revised by: Wayne Fisch</b>
Table 1:	Updated DPRP-200002 from Rev. – to A	

<b>Rev: 13</b>	<b>Released: 10-May-2023</b>	<b>Revised by: Wayne Fisch</b>
Table 2:	Updated to reflect additional compatible OEM part numbers	
Table 4:	Updated to reflect additional compatible OEM part numbers	

<b>Rev: 14</b>	<b>Released: 11-Sep-2023</b>	<b>Revised by: Wayne Fisch</b>
Table 2:	Updated to reflect additional compatible OEM part numbers	
Table 4:	Updated to reflect additional compatible OEM part numbers	

<b>Rev: 15</b>	<b>Released: 16-Oct-2023</b>	<b>Revised by: Wayne Fisch</b>
Table 1:	Updated 035647E-01 from Rev. G to H	
Table 3:	Updated 035647E-01 from Rev. G to H	

<b>Rev: 16</b>	<b>Released: 6-Feb-2024</b>	<b>Revised by: Wayne Fisch</b>
Table 1:	Updated DQR-200006 from Rev. - to A	
Table 3:	Updated DQR-200006 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
<b>External Database Documents</b>	
Q907-ESG Version A, Rev. 04, June-2018	<i>Configuration Management</i>
ASI-QA-2018-0017 Rev. H, 23-Dec-2022	<i>Database Distribution Work Instructions</i>
ASI-QA-2022-0001 Rev. -, 11-Mar-2022	<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. H, 12-Oct-2023	<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. -, 8-Dec-2022	<i>DA EFVS Target DQR</i>
<b>UASC Database Documents</b>	
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. -, 6-Sep-2022	<i>Data Processing Procedures for the Helionix Cyclic Databases</i>
DPRP-200002 Rev. A, 2-Mar-2023	<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
<b>BMS Documents</b>	
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)	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	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX  <b>SW:</b> 1237A05-28	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0501 <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 <b>SW:</b> E463C01S0510 E463C03S0510	<b>Step 2</b> Navigation Data	<b>Part of Cyclic DB PNs:</b> 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	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX  <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 <b>SW:</b> M463C02S0600 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0600 <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 <b>SW:</b> E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0800	<b>Step 3</b> Navigation Data	<b>Part of Cyclic DB PNs:</b> 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)	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 <b>SW:</b> M463C02S0800 M463C02S0801 <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 <b>SW:</b> U463C02S0900 <b>HW P/Ns:</b> X423C10A1005 X423C10A1008 X423C10B1008 <b>SW:</b> U463C02S0910 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C06S1000	<b>Step 3</b> Navigation Data (Continued)	<b>Part of Cyclic DB PNs:</b> 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
Multi-Function Display	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX <b>SW:</b> 1237A05-28	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0501 <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 <b>SW:</b> E463C03S0510 E463C01S0510	<b>Step 2</b> 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	SSSSS3F_AACC_BB	Enabled

Multi-Function Display	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 <b>SW:</b> M463C02S0600 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0600	<b>Step 3</b> Obstacle Data	<b>Part of Cyclic DB PNs:</b> 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)	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003 <b>SW:</b> E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C01S0800 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 <b>SW:</b> M463C02S0800 M463C02S0801 <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 <b>SW:</b> U463C02S0900 <b>HW P/Ns:</b> X423C10A1005 X423C10A1008 X423C10B1008 <b>SW:</b> U463C02S0910 <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1008 X423C10B1003 X423C10B1008 <b>SW:</b> D463C06S1000	<b>Step 3</b> Obstacle Data (Continued)	<b>Part of Cyclic DB PNs:</b> 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
<b>External Database Documents</b>	
Q907-ESG Version A, Rev. 04, June-2018	<i>Configuration Management</i>
ASI-QA-2022-0001 Rev. -, 11-Mar-2022	<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. H, 12-Oct-2023	<i>Plan for Databases Aspects of Certification (PDBAC)</i>
ASI-QA-2018-0017 Rev. H, 23-Dec-2022	<i>Database Distribution Work Instructions</i>
057761E-00 Rev. A, 6-Jul-2022	<i>Data Quality Requirements ADS</i>
<b>UASC Database Documents</b>	
EP3401 19-Jul-2010	<i>Configuration Management Plan for the Geodatabases</i>
EP3420E 16-Feb-2022	<i>Database Processing Procedures for the Terrain Geodatabases</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>
<b>BMS Documents</b>	
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
Multi-Function Display	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX  <b>SW:</b> 1237A05-28	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008  <b>SW:</b> D463C01S0501  <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003  <b>SW:</b> E463C01S0510 E463C03S0510	<b>Step 2</b> Terrain Elevation and Cultural Data	<b>Part of Noncyclic DB PNs:</b> 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	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX  <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006  <b>SW:</b> M463C02S0600  <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008  <b>SW:</b> D463C01S0600  <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008 X423C10B1003  <b>SW:</b> E463C01S0700 E463C01S0710 E463C01S0711 E463C03S0700 E463C03S0710 E463C03S0711	<b>Step 3</b> Terrain Elevation and Cultural Data	<b>Part of Noncyclic DB PNs:</b> 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	<b>HW P/Ns:</b> MB0808C-XX MB0808T-XX  <b>SW:</b> 1237A06-43	<b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008 X423C10B1003 X423C10B1008  <b>SW:</b> D463C01S0800  <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1007 X423C10A1008  <b>SW:</b> M463C02S0800 M463C02S0801  <b>HW P/Ns:</b> X423C10A1005 X423C10A1007 X423C10A1008  <b>SW:</b> U463C02S0900  <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1008 X423C10B1003 X423C10B1008  <b>SW:</b> U463C02S0910  <b>HW P/Ns:</b> X423C10A1005 X423C10A1006 X423C10A1008 X423C10B1003 X423C10B1008  <b>SW:</b> D463C06S1000	<b>Step 3</b> Terrain Elevation and Cultural Data	<b>Part of Noncyclic DB PNs:</b> 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**