

Date: 21 September 2018  
To: Thai Aviation Services Limited  
Attention: Colin Inglis  
Regarding: Request For HUMS Parametric Data Name Clarification  
Technical Case #: C0103035  
Aircraft Serial #: 761000

Colin Inglis,

Sikorsky HUMS Engineering states the following,

In regards to S-76D/S-92 parameter names, the HUMS User's Guides historically have listed the Parameters recorded by HUMS and the systems that supply the data. Sikorsky HUMS will provide an update to those lists to Technical Publications for inclusion into the Aircraft Maintenance Manuals / HUMS User's Guides. In the meantime, if the customer sees any parameters that they need to review for any technical issues or other matters and those do not have units, please let us know and we could supply it. See attachment below.

Please note that almost all parameters are from different avionics boxes (ADC, AVC, etc) and the ones without units are mostly frequency signal or bit data.

**761000 - C0103035**  
**Request For HUMS Parametric Data Name Clarification**



Problem Description:

Reference the attached screen shot of HUMS SGBA parametric data viewer Parameters list (S-76D shown, but S-92 is similar). TAS HUMS department notes that many parameters in the S-76D/S-92 SGBA parametric data viewer have unintuitive names, making it difficult to decipher what they represent. To add to the ambiguity, a number of parameters have scales that lack a Unit of Measure, which also makes interpretation difficult.

TAS requests a list of all S-76D/S-92 parameter names in plain English, as well as Units of Measure for those parameters that do not display defined units.

Sikorsky HUMS Response:

The HUMS User's Guides historically have listed the Parameters recorded by HUMS and the systems that supply the data. Sikorsky HUMS will provide an update to those lists to Technical Publications for inclusion into the Aircraft Maintenance Manuals / HUMS User's Guides. For the screen shot provided in this case, the following is provided as initial response to this Case.

Parameter Name	System	Signal type / units
Z(R5C2)_Real (S76D)	Active Vibration Control (AVC)	AVC frequencies/no units
160 parameters of this type recorded by HUMS	There are 10 AVC accelerometers	Each of the 10 AVC accelerometers has Real & imaginary components for 8 frequencies
FCM_MOD_COL(S76D)	Vehicle Management Module	Navigation Signal / No units

Sikorsky  
6900 Main Street - P.O. Box 9729  
Stratford, Connecticut 06497-9129



Regards,

**Bradley Dew**  
Service Engineering  
Sikorsky Aircraft  
[bradley.r.dew@lmco.com](mailto:bradley.r.dew@lmco.com)  
Office (direct): 203-447-7115  
Office (24 hr. line): 203-416-4299

**NOTICES**

THIS DOCUMENT, OR AN EMBODIMENT OF IT IN ANY MEDIA, DISCLOSES INFORMATION WHICH IS PROPRIETARY, IS THE PROPERTY OF SIKORSKY AIRCRAFT CORPORATION AND/OR ITS SUBSIDIARIES, IS AN UNPUBLISHED WORK PROTECTED UNDER APPLICABLE COPYRIGHT LAWS, AND IS DELIVERED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED, DISCLOSED, REPRODUCED, IN WHOLE OR IN PART (INCLUDING REPRODUCTION AS A DERIVATIVE WORK), OR USED FOR MANUFACTURE, REPAIR OR OVERHAUL BY THE RECIPIENT WITHOUT THE WRITTEN CONSENT OF SIKORSKY AIRCRAFT CORPORATION, AND THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE ANY INFORMATION CONTAINED THEREIN. ALL RIGHTS RESERVED. ANY ACT IN VIOLATION OF APPLICABLE LAW MAY RESULT IN CIVIL AND CRIMINAL PENALTIES.

THIS DOCUMENT PROVIDES DISCRETE DISPOSITION AND/OR REPAIR INSTRUCTIONS UNIQUE TO THE SERIALIZED PART OR SERIALIZED AIRCRAFT SPECIFIED HEREIN AND SHALL NOT BE USED FOR DISPOSITION OF SIMILAR CONDITIONS OR REFERENCED AS THE BASIS OF SUBSTANTIATION IN WHOLE OR IN PART, FOR OTHER FORMS OF APPROVED TECHNICAL DATA. THIS DOCUMENT ONLY PROVIDES DISPOSITION FOR CONDITIONS EXPLICITLY IDENTIFIED HEREIN AND DOES NOT CONSTITUTE ABSOLUTE AND FINAL ACCEPTANCE.

**EXPORT WARNING**

THIS DOCUMENT MAY CONTAIN EXPORT CONTROLLED TECHNICAL DATA, BUT HAS NOT BEEN CLASSIFIED FOR EXPORT PURPOSES.  
DO NOT TRANSFER OR RE-TRANSFER WITHOUT PROPER EXPORT CLASSIFICATION, MARKING, AND SIKORSKY APPROVAL.