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Date:
 2025-03-18

Our reference:
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 UT-2024.1155 Rev.2

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DNV Statement Validity AUT configurations

DNV has been requested by Applus GPS to witness scan trials of several AUT system configurations and assess the results as an independent third party. The purpose was to perform technical performance comparison of several AUT System configurations with some amended essential variables (improved software and hardware), to verify that these do not influence the DNV qualified performance as documented in (latest revisions):

- 2009-4129 DNV Qualification Report of Applus+ ROTOSCAN AUT System on CS girth welds
- 2015-4304 DNV Qualification Report of Applus+ ROTOSCAN AUT System on CRA girth welds
- 2015-4316 DNV Qualification Report of Applus+ RTD IWEX AUT System on CS girth welds
- 2018-4107 DNV Qualification Report of Applus+ RTD IWEX AUT System on CRA girth welds

The trials have been executed on March 4th and 5th 2025 based upon the requirements of DNV-ST-F101:2021, appendix E and DNV-RP-F118:2021 requirements, following the activities as outlined in Applus GPS program UT-2024.1155 Rev.2 'General DNV Endorsement AUT Systems on Essential Variables'. The activities are specifically aimed to demonstrate validity of the qualification results for all relevant essential variables as outlined in DNV-ST-F101: 2021 Appendix E sections E.8.5 and E.10.2.2. Following qualified and new configurations were tested:

Comparison Test nr.	DNV Qualified AUT Configuration	New AUT Configuration
T1	RTD IWEX AUT 2.0 software on 4G+ hardware	RTD IWEX AUT 2.0 software on UTM-A-128 hardware, with & without PA 5m Extension Cable (SPA-box off)
T2	ROTOSCAN AUT 5.5 software on 4G+ hardware	ROTOSCAN AUT 6.0 software on 4G+ hardware, with & without PA 5m Extension Cable (SPA-box off)
T3		ROTOSCAN AUT 6.0 software on UTM-A-128 hardware
T4	ROTOSCAN AUT 5.5 software on PA128 hardware	ROTOSCAN AUT 6.0 software on PA128 hardware



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To validate the various software and hardware configurations, repeated scans of reference blocks (IWEX AUT & ROTOSCAN AUT) and seeded weld were made and compared to demonstrate that the performance is independent of AUT software and hardware acquisition unit combinations.

Based on the by DNV witnessed validation scanning activities executed on the reference block and seeded defect weld, it is concluded that above referenced new AUT software and hardware configurations perform within the range as originally qualified by DNV. Consequently, the DNV qualified performance, as documented in above referenced DNV qualification report, can be maintained.

Sincerely
for DNV AS

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