



01/03/2023

Subject: Change to SAE/USCAR-2, Revision 8, (Letter #6)

Changes have been made to the USCAR-2 specification. Comments and questions can be sent to EWCAP@uscar.org.

Situation:

Test paths R and T in Table 5.9.7 do not have a final insulation resistance check. This was likely missed since these are stand-alone test sequences that are not commonly used.

Resolution:

Add final IR for test paths R and T Table 5.9.7

| Test Name | | Fluid Resistance | Temp/Humidity-Submersion | Temp/Humidity-PV Leak | Temp/Humidity-High Press. Spra | Temp/Humidity-PV Leak, Subme High Press. Spra | High Temp Expo Submersion. |
|----------------------------|------------------------------------|------------------|--------------------------|--|---|---|----------------------------|
| Test Sequence ID | | Q | R | S | AA | RSAA | T |
| Sample Size minimum (2) | Conn. | 9 | 10 | 10 | 10 | 10 | 10 |
| | Term. | See Note 1 | | | | | |
| Applicable Cable Size | | Sm | Sm | Sm | Sm | Sm | Sm |
| 5.1 | General | 1 ⁽³⁾ | 1 | 1 | 1 | 1 | 1 |
| 5.1.8 | Visual Inspection | 2, 4 | 2, 8 9 | 2, 10 | 2, 8 11 | 2, 16 | 2, 8 9 |
| 5.1.7 | Connector and/or Terminal Cycling | | 3 | 3 | 3 | 3 | 3 |
| 5.1.9 | Circuit Continuity Monitoring | | | | | | |
| 5.3.1 | Dry Circuit Resistance | | | | | | |
| 5.3.2 | Voltage Drop | | | | | | |
| 5.4.1 | Terminal-Connector retention force | | 9 10 | 11 | 11 12 | 17 | 9 10 |
| 5.4.6 | Vibration/Mechanical Shock | | | | | | |
| 5.5.1 | Insulation Resistance | | 4, 6 8 | 4 7 ⁽⁴⁾ 9 ⁽⁴⁾ | 4, 6 ⁽⁴⁾ 8 ⁽⁴⁾ 10 ⁽⁴⁾ | 4, 7 ⁽⁴⁾ 9 ⁽⁴⁾ 11 ⁽⁴⁾ 13 ⁽⁴⁾ 15 ⁽⁴⁾ | 4, 6 8 |
| 5.6.1 | Thermal Shock | | | | | | |
| 5.6.2 | Temperature/Humidity Cycling | | 5 | 6 | 5 | 6 | |
| 5.6.3 | High Temperature Exposure | | | | | | 5 |
| 5.6.4 | Fluid Resistance | 3 | | | | | |
| 5.6.5 | Submersion | | 7 | | | 10 | 7 |
| 5.6.6 | Pressure/Vacuum Leak | | | 5, 8 | | 5, 8 | |
| 5.6.7 | High Pressure Spray | | | | 7 ⁽⁵⁾ 9 ^(4,6) | 12 ⁽⁵⁾ 14 ^(4,6) | |