

Validation Report for 1 created on 18/01/2024 - start time: 22:03:30 - duration: 0min. 11sec. by user THOMASSA using version: 9.1.20.2

C:\Users\ThomasSalzman\OneDrive - apexspace\Desktop\litu docs_1_18\Apex Aries 1 - ITU API Nick Edits v4 No UHF down No Xband.mdb

Satellite Name:APEX ARIES 1 - Adm.:USA - Orb. Pos.: NGSO Station Type: N

VALIDATION RESULT: 75 Errors Fatal Errors:8 Warnings:67

| Beam | E/R | Grp Id | Table | Field | Value | Row | Valerr | Rule | F/W | Ap4 Ref | Error Message |
|------|-----|--------|----------|----------|-------|-----|--------|------|-----|-----------------|---|
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 2 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 0.97 | 14 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.42 - 1.81) |
| SDA | E | 4 | e_as_stn | bmwidth | 1.83 | 13 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SDA | E | 4 | e_as_stn | bmwidth | 0.97 | 15 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.42 - 1.81) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 1 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 5 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 6 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 7 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.4 | 8 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDA | E | 4 | e_as_stn | bmwidth | 2.2 | 9 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.3 - 2.93) |
| SDA | E | 4 | e_as_stn | bmwidth | 1.83 | 11 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SDA | E | 4 | e_as_stn | bmwidth | 1.83 | 12 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SDA | E | 4 | grp | eirp_nom | -4.6 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| SDA | E | 4 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| SDB | E | 5 | e_as_stn | bmwidth | 0.97 | 11 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.42 - 1.81) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 2 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 1 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 5 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 1.83 | 15 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |

| Beam | E/R | Grp Id | Table | Field | Value | Row | Valerr | Rule | F/W | Ap4 Ref | Error Message |
|------|-----|--------|----------|----------|----------|-----|--------|------|-----|-----------------|---|
| SDB | E | 5 | e_as_stn | bmwidth | 1.83 | 14 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SDB | E | 5 | e_as_stn | bmwidth | 0.97 | 12 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.42 - 1.81) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.2 | 9 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.3 - 2.93) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 8 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 7 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 2.4 | 6 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.64 - 3.37) |
| SDB | E | 5 | e_as_stn | bmwidth | 1.83 | 13 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SDB | E | 5 | grp | eirp_nom | 4.3 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| SDB | E | 5 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| SUA | R | 6 | e_as_stn | bmwidth | 1.5 | 1 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.59 - 2.03) |
| SUA | R | 6 | e_as_stn | bmwidth | 1.5 | 2 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (1.59 - 2.03) |
| SUA | R | 6 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| SUB | R | 7 | e_as_stn | bmwidth | 2.2 | 9 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (2.3 - 2.93) |
| SUB | R | 7 | e_as_stn | bmwidth | 32 | 12 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SUB | R | 7 | e_as_stn | bmwidth | 32 | 13 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SUB | R | 7 | e_as_stn | bmwidth | 32 | 14 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (22.5 - 28.65) |
| SUB | R | 7 | grp | eirp_nom | 0 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| SUB | R | 7 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| UDA | E | 1 | e_as_stn | bmwidth | 40 | 5 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 1 | e_as_stn | bmwidth | 40 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 1 | e_as_stn | bmwidth | 40 | 6 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 1 | e_as_stn | bmwidth | 40 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 1 | e_as_stn | stn_name | PRETORIA | 2 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (noise_t) |
| UDA | E | 1 | e_as_stn | stn_name | BODEN | 1 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (noise_t) |

| Beam | E/R | Grp Id | Table | Field | Value | Row | Valerr | Rule | F/W | Ap4 Ref | Error Message |
|------|-----|--------|----------|------------|-------------|-----|--------|------|-----|-----------------|---|
| UDA | E | 1 | emiss | pwr_ds_max | -33.4 | 1 | 671 | 4 | W | C.8.b.3.b | It appears that submitted pwr_ds_max and design_emi 2K64F1D-- is not derived using Recommendation ITU-R SF. 675. See Note 2 of footnotes to Table A, B, C and D of Annex 2 of Appendix 4. Power spectral density should be averaged over averaging bandwidth of 4 kHz taking into account maximum number of carriers to occupy any given 4 kHz band. The validation shows that instead, an average bandwidth of 2.64 kHz was used |
| UDA | E | 1 | grp | eirp_nom | 0.8 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| UDA | E | 1 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| UDA | E | 12 | e_as_stn | bmwidth | 40 | 6 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 12 | e_as_stn | bmwidth | 40 | 5 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 12 | e_as_stn | bmwidth | 40 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 12 | e_as_stn | bmwidth | 40 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDA | E | 12 | emiss | pwr_ds_max | -33 | 1 | 671 | 4 | W | C.8.b.3.b | It appears that submitted pwr_ds_max and design_emi 2K64F1D-- is not derived using Recommendation ITU-R SF. 675. See Note 2 of footnotes to Table A, B, C and D of Annex 2 of Appendix 4. Power spectral density should be averaged over averaging bandwidth of 4 kHz taking into account maximum number of carriers to occupy any given 4 kHz band. The validation shows that instead, an average bandwidth of 2.64 kHz was used |
| UDA | E | 12 | grp | eirp_nom | 0.8 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| UDA | E | 12 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| UDB | E | 2 | e_as_stn | bmwidth | 40 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 2 | e_as_stn | bmwidth | 40 | 6 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 2 | e_as_stn | bmwidth | 40 | 5 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 2 | e_as_stn | bmwidth | 40 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 2 | e_as_stn | stn_name | BODEN | 1 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |
| UDB | E | 2 | e_as_stn | stn_name | PRETORIA | 2 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |
| UDB | E | 2 | e_as_stn | stn_name | PUERTOLLANO | 3 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |
| UDB | E | 2 | e_as_stn | stn_name | VIMERCATE | 4 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |
| UDB | E | 2 | e_as_stn | stn_name | LOMAZZO | 5 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |

| Beam | E/R | Grp Id | Table | Field | Value | Row | Valerr | Rule | F/W | Ap4 Ref | Error Message |
|------|-----|--------|----------|----------|-------|-----|--------|------|-----|-----------------|---|
| UDB | E | 2 | e_as_stn | stn_name | UNST | 6 | 680 | 5 | W | C.10.b.1 | Values different for assoc.e.stns with same name (diag_e) |
| UDB | E | 2 | grp | eirp_nom | 3 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| UDB | E | 2 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |
| UDB | E | 13 | e_as_stn | bmwidth | 40 | 1 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 13 | e_as_stn | bmwidth | 40 | 2 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 13 | e_as_stn | bmwidth | 40 | 4 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 13 | e_as_stn | bmwidth | 40 | 3 | 695 | 4 | W | C.10.d.4 | Value outside computed allowable range (25.83 - 32.89) |
| UDB | E | 13 | grp | eirp_nom | 3 | | 667 | 3 | W | C.8.f.1/C.8.f.2 | Value required only for space-to-space links |
| UDB | E | 13 | grp | op_agcy | 999 | | 605 | 3 | F | A.3.a | Value = 999 ; please either request the Bureau to allocate an operating agency symbol first, or enter 999 and provide the details of the operating agency or company in an attachment |