AUTHENTICATED
U.S. GOVERNMENT
INFORMATION
GPO



section, the fault shall be isolated by performing shield or armor ground resistance measurements on individual cable or wire sections.

(3) Once the fault or faults have been isolated, the cable or wire jacket shall be repaired in accordance with § 1755.200, RUS Standard for Splicing Copper and Fiber Optic Cables or the entire cable or wire section may be replaced at the request of the borrower.

[62 FR 23998, May 2, 1997]

### § 1755.407 Data formats.

The following suggested formats listed in this section may be used for recording the test data:

FORMAT I

OUTSIDE PLANT ACCEPTANCE TESTS – SUBSCRIBER LOOPS

PROJECT: _____ Date of Test: _____

CO NAME OF LOCATION: _____ Time Measured: _____ Tester (Contractor): _____

CO or RST GROUND RESISTANCE: _____ Ohms (Before tying to elect. neutral) Temperature: _____ Tester (Engineer): _____

CO or RST GROUND RESISTANCE: _____ Ohms (After tying to elect. neutral) Soil Type: _____ Tester (Borrower): _____

Test Equip.: _____ Moisture Content of Soil: _____

| Route No. | Pair No. | Length (Miles or km) | DC Insul. Resist. (Megohms) | | | DC Loop Resist. (Ohms) | | | Measd. DC Res. Unbal. (Ohms) | Open Ckt Meas. Type (a,b,c,d) | | Insertion Loss at kHz Shown | | | | | Line Noise | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | T–GD | R–GD | Min. Permit | Comp. 68°F (20°C) | Measd. °F (___°C) | Corr. 68°F (20°C) | | SRL (dB) | Freq. (kHz) | 1.0 | 1.7 | 2.3 | 2.8 | 3.4 | 4.0 | NMC | NG–C | NGF | Bal. |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Shield or Shield/Armor Continuity Data has been attached. Yes ___ No___

# FORMAT II

## OUTSIDE PLANT ACCEPTANCE TESTS – TRUNKS CIRCUITS

PROJECT: _____ Date of Test: _____

CO NAME OF LOCATION: _____ Tester (Contractor): _____

OFFICE A: _____ Tester (Engineer): _____

OFFICE B: _____ Tester (Borrower): _____

ELECTRONIC EQUIPMENT GROUND RESISTANCE: _____ Ohms

Time Measured: _____ Soil Type: _____ Test Equip: _____

Temperature: _____ Moisture Content of Soil: _____

In the space below show in a simple line diagram the facility makeup including all gauges, lengths, cable types, and repeater locations if any.

| Trunk No. | Pair No. Off. A | Pair No. Off. B | Length Miles or km | DC Insul. Resist. (Megohms) | | | DC Loop Resist. (Ohms) | | | Measd DC Res. Unbal. (Ohms) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | T–GD | R–GD | Min. Permit | Comp. 68°F (20°C) | Measd. ___°F (___°C) | Corr. 68°F (20°C) | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

# FORMAT III

## OUTSIDE PLANT ACCEPTANCE TESTS – T1 or T1C CARRIER PAIRS

PROJECT: _____ Type of Proposed Carrier: _____ (Trunk – Subscriber)

LOCATION: From _____ (CO Name) to _____ (CO Name) Shield or Shield/Armor Continuity has been checked: _____

Aerial: _____ Buried: _____ Weather: _____ Temp.: _____ Date: _____ Sheet ____ of ____

CARRIER FREQUENCY INSERTION LOSS MEASUREMENTS (1)

| From_____ to_____ | | | | | From_____ to_____ | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Freq (2) (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (3) Loss (dB) | Freq (2) (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (3) Loss (dB) |
| 20 | | | | | 20 | | | | |
| 60 | | | | | 60 | | | | |
| 100 | | | | | 100 | | | | |
| 140 | | | | | 140 | | | | |
| 180 | | | | | 180 | | | | |
| 200 | | | | | 200 | | | | |
| 300 | | | | | 300 | | | | |
| 400 | | | | | 400 | | | | |
| 600 | | | | | 600 | | | | |
| 700 | | | | | 700 | | | | |
| 772 | | | | | 772 | | | | |
| 800 | | | | | 800 | | | | |
| 1000 | | | | | 1000 | | | | |
| 1200 | | | | | 1200 | | | | |
| 1300 | | | | | 1300 | | | | |
| 1400 | | | | | 1400 | | | | |
| 1500 | | | | | 1500 | | | | |
| 1576 | | | | | 1576 | | | | |

Notes: (1) Refer to RUS TE&CM 925 on How to Make Measurements. (2) Go as high in frequency as required by contract.
(3) From either Table 7 or 8 in Paragraph (g)(4)(iii)(A) of Section 1755.403; Correct loss for temperature.

# FORMAT IV

## OUTSIDE PLANT ACCEPTANCE TESTS – STATION CARRIER PAIRS

PROJECT: _____ Type of Proposed Carrier: _____ (Trunk – Subscriber)

LOCATION: From _____ (CO Name) to _____ (Sub.) Shield or Shield/Armor Continuity has been checked: _____

Aerial: _____ Buried: _____ Weather: _____ Temp.: _____ Date: _____ Sheet ____ of ____

CARRIER FREQUENCY INSERTION LOSS MEASUREMENTS (1)

| From _____ to _____ | | | | | From _____ to _____ | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Freq. (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (2) Loss (dB) | Freq. (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (2) Loss (dB) |
| 20 | | | | | 20 | | | | |
| 60 | | | | | 60 | | | | |
| 100 | | | | | 100 | | | | |
| 112 | | | | | 112 | | | | |
| 140 | | | | | 140 | | | | |

| From _____ to _____ | | | | | From _____ to _____ | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Freq. (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (2) Loss (dB) | Freq. (kHz) | Send Level (dBm) | Receive Level(dBm) | Measured Loss(dB) | Estimated (2) Loss (dB) |
| 20 | | | | | 20 | | | | |
| 60 | | | | | 60 | | | | |
| 100 | | | | | 100 | | | | |
| 112 | | | | | 112 | | | | |
| 140 | | | | | 140 | | | | |

Notes:

(1) Refer to RUS TE&CM 925 on How to Make Measurements.

(2) From either Table 7 or 8 in Paragraph (g)(4)(iii)(A) of Section 1755.403; correct loss for temperature.

# FORMAT V

## OUTSIDE PLANT ACCEPTANCE TESTS
## FIBER OPTIC TELECOMMUNICATIONS PLANT

PROJECT: _____ Date of Test: _____

TERMINATION POINT A: _____ Tester (Contractor): _____

TERMINATION POINT B: _____ Tester (Engineer): _____

Time Measured: _____ Tester (Borrower): _____

Temperature: _____ Test Equip: _____

Soil Type: _____ Moisture Content of Soil: _____

| Route No. | Fiber No. | Length Miles or km | Splice Loss (dB) | | End-to-End Attenuation (dB/km) | End-to-End Fiber Signature | |
|---|---|---|---|---|---|---|---|
| | | | FIELD | CO | | Yes | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Armor Continuity Data has been attached. Yes ___ No ___

# FORMAT VI

## VOICEBAND DATA TRANSMISSION TESTS – NONLOADED SUBSCRIBER LOOPS

PROJECT: _____

LOCATION: From _____ (CO Name) to _____ (Sub. Name)

TEMPERATURE: _____ DATE: _____

AERIAL: _____

BURIED: _____

UNDERGROUND: _____

Date of Test: _____

Tester (Contractor): _____

Tester (Engineer): _____

Tester (Borrower): _____

Test Equip.: _____ Sheet ____ of ____

| Route No. | Pair No. | Length (Miles or km) | S/CNN 1,004 Hz Tone at −13 dBm0 (dB) | S/IMD (dB) | | Impulse Noise (dBrnC0) | EDD (Microseconds) | | AJ (%) | | PJ (°p−p) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | R2 | R3 | | 604 Hz | 2,804 Hz | 4 to 300 Hz | 20 to 300 Hz | 4 to 300 Hz | 20 to 300 Hz |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

FORMAT VII

VOICEBAND DATA TRANSMISSION TESTS – TRUNK CIRCUITS

PROJECT: _____ Date of Test: _____

LOCATION: From _____ (CO Name) to _____ (CO Name) AERIAL: _____ Tester (Contractor): _____

BURIED: _____ Tester (Engineer): _____

TEMPERATURE: _____ DATE: _____ UNDERGROUND: _____ Tester (Borrower): _____

Test Equip.: _____ Sheet _____ of _____

| Trunk No. | Pair No. CO-A | Pair No. CO-B | Length (Miles or km) | S/CNN 1,004 Hz Tone at −13 dBm0 (dB) | S/IMD (dB) | | Impulse Noise (dBrnC0) | EDD (Microseconds) | | AJ (%) | | PJ (°p–p) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | R2 | R3 | | 604 Hz | 2,804 Hz | 4 to 300 Hz | 20 to 300 Hz | 4 to 300 Hz | 20 to 300 Hz |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

[62 FR 24000, May 2, 1997]

## §§ 1755.408–1755.499 [Reserved]

### § 1755.500 RUS standard for service installations at customers access locations.

(a) Sections 1755.501 through 1755.510 cover service installations at permanent or mobile home customer access locations. Sections 1755.501 through 1755.510 do not cover service installations at customer access locations associated with boat yards or marinas.

(b) Service installations for customer access locations in boat yards or marinas shall be performed in accordance with Article 800, Communications Circuits, of the American National Standards Institute/National Fire Protection Association (ANSI/NFPA) 70–1999, *National Electrical Code®* (*NEC®*). The *National Electrical Code®* and *NEC®* are registered trademarks of the National Fire Protection Association, Inc., Quincy, MA 02269. The ANSI/NFPA 70–