

OLTS One-Jumper Pre-Acceptance Field Checklist

AEM TestPro • reference • TRC validation • FUT autotest

PROJECT / SITE

TECHNICIAN

ADAPTERS / S/N

WAVELENGTHS

DATE AND TIME

MAIN S/N / REMOTE S/N

FIBER TYPE

[] MM [] SM type:

LIMIT / STANDARD / APPLICATION

A PREPARATION

- ☐ Correct project, fiber type, wavelengths, and test limit selected.
- ☐ One-jumper method and dual-ended / loopback configuration confirmed.
- ☐ Main and Remote have the correct fiber adapters installed.
- ☐ Optical adapters stabilized for at least 5 minutes before Set Reference.
- ☐ TRCs show no damage, tight bends, or mechanical stress.
- ☐ Instrument calibration status verified.
- ☐ Required launch condition / encircled flux (EF) confirmed for MM.

B INSPECTION AND CLEANING

- ☐ Both cord end faces connected to Tx ports inspected.
- ☐ Cord end faces to be connected to Rx ports inspected.
- ☐ Additional TRCs used after reference inspected.
- ☐ Every contaminated end face cleaned.
- ☐ Each cleaned end face reinspected.
- ☐ Connections made only after cleanliness was confirmed.

BEFORE / AFTER INSPECTION IMAGES - FILENAMES

STOP

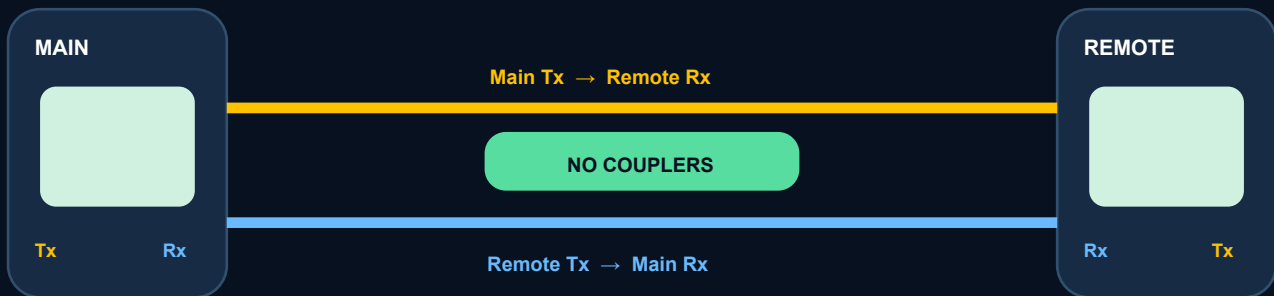
Do not begin acceptance testing if:

- any end face remains contaminated or damaged;
- the reference method or test limit is not confirmed;
- the adapters are not stable or the cords are under mechanical stress.

Set Reference and Added-TRC Validation

Two stages, two limit types: dBm for power and dB for loss

ONE-JUMPER REFERENCE



C SET REFERENCE

- ☐ Main Tx → Remote Rx connected with one TRC.
- ☐ Remote Tx → Main Rx connected with one TRC.
- ☐ No intermediate couplers in either path.
- ☐ Fiber Certification → Tools → Set Reference → One Jumper selected.
- ☐ Reference set after at least 5 minutes of stabilization.
- ☐ No Tx connection disturbed after Set Reference.

D ADDED-TRC VALIDATION

- ☐ Additional TRCs passed Inspect-Clean-Inspect.
- ☐ Tx cords remained connected to their ports.
- ☐ Rx cords added and coupled to the Tx cords.
- ☐ Autotest completed in both directions at all wavelengths.
- ☐ Result saved separately with date and cord identifiers.

VALUE LOG

DIRECTION / WAVELENGTH	RESULT	LIMIT	PASS
Set Reference - Main / Remote	_____ dBm	MM ≥ -24 dBm / SM ≥ -4 dBm	☐
Added TRC - direction A / B	_____ dB	MM < 0.10 dB / SM < 0.20 dB	☐

TRC VALIDATION RECORD NAME
e.g., TRC-SM-A12-B07-2026-07-14

DO NOT UNPLUG

Tx

If either Tx connection was disturbed, repeat Set Reference from the beginning.

Link Testing and When to Set a New Reference

PASS alone is not enough - verify the ID, limit, wavelengths, and margin

E TEST EACH LINK

- ☐ Path opened at the couplers, not at Tx.
- ☐ Both link end faces passed Inspect-Clean-Inspect.
- ☐ Link identifier and fiber identity confirmed.
- ☐ Correct autotest run.
- ☐ Polarity and length verified.
- ☐ Loss verified at every required wavelength.
- ☐ Applied test limit verified.
- ☐ Margin reviewed, not only the PASS status.
- ☐ Result saved under the correct identifier.

F SET A NEW REFERENCE IF

- ☐ any cord was disconnected from a Tx port;
- ☐ either unit was power-cycled;
- ☐ an adapter was removed, reinstalled, or replaced;
- ☐ a test reference cord was replaced;
- ☐ dual-ended / loopback configuration changed;
- ☐ TRC validation failed and connections changed;
- ☐ an unexplained negative-loss result appeared;
- ☐ the batch of results began to drift.

LAST VALID REFERENCE

DATE AND TIME

TECHNICIAN / SIGNATURE

TRC RECORD

A certification result is defensible only when you can show the zero reference behind it.

PRACTICE THE WORKFLOW OR CONFIGURE YOUR KIT



Free Academy

10 modules + simulator



AEM TestPro

Copper + OLTS + OTDR