



INSTALLATION CONNECTION TESTS & PROCEDURES COMMITTEE

Ref: VESI Installation Supply Connection Tests & Procedures (ISCTP) Manual Update – 1/1/2024

Date: 18/12/2023

To Distribution Businesses/Stakeholder

Following consultation and agreement between the VESI ISCTP committee and all Distributors, the VESI Installation Supply Connection Tests & Procedures Manual has been updated.

The January 2024 version of the manual will be accessible for download and hard copy printing from the VESI website from the 1st of January 2024. New manual is a tablet friendly PDF version, which resulted in several sections requiring re-numbering.

Managers of personnel who use the VESI ITCP manual are to ensure:

- All stakeholders are made aware of these changes, and
- All personnel approved to undertake VESI ICTP procedures have access to the current version of the manual either electronically or in hard copy.

Major Changes to the Manual Include:

- Updated section 1.2 Definitions, with further clarification on definition for distributed neutral and replace POEL with PAL.
- Updated section 2.3 Testers. Included note from VESI memo January 2020 on Cat rated equipment, added additional equipment reflecting updated models and non-contact testers.
- Updated existing procedure 3.4 Underground Consumer Mains Test to reflect IR value for existing UG cables is 1 Megohm. Added new table with distance and minimum values.
- Section 5 renumbered
- New section 5.1.3 & 5.1.4 new loop impedance tester
- Updated old procedure 5.4 (now 5.3) with new header “Alternative and Supplementary Supplies”, removed mandatory locking of main switch.

The **Change Summary** table below (copied from Section 1 of the Manual) lists the most recent changes to the January 2024 version of the Manual.

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Chairman
VESI Installation Supply Connection Tests & Procedures Committee

VESI ISTCP Management Committee

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Change Summary	Section
Removed pre 2017 manual version “Summary of Changes” from new manual	1
Updated definition for disturbed neutral New Definition “Connection Worker” Replaced definition for POEL with PAL Updated numerous definitions to reflect Green Book 2020 and VSIR 2014 incorporating 2017, 2019 and 2022 amendments	1.2
Updated membership and chair of the committee	1.3
Added note to header referring VESI Memo 09/05/2018 recommending equipment to be to Cat rated by July 2023. Added note to header referring to equipment shown is indicative only as each DB may have an approved list. Added additional NST units as per VESI memo January 2020 Additional testing equipment added to reflect updated models of audible testers and insulated contact phase sequence testers	2.3
Additional pictures added of independent Earth and trailing leads	2.4
Meter programmer removed as no longer in use	2.6
Old section 2.7 Neutral tags and section 2.8 labels now 2.6 and 2.7	2.7 & 2.8
Removed picture of UE defect label, as no longer in use.	2.8 (new 2.7)
Note updated to “NITP testing involving the FOLCB shall only be undertaken with the FOLCB completely isolated: Replaced “when” to “with”	3.3
Updated the IR value for existing installation from 5 to 1 megohm as per VSIR. New table added for minimum IR value for new cables.	3.4
Simplified wording in step 1 for better clarity. Updated voltage for testing outcome, to reflect now nominal voltage 230, 400/460	3.5
Added note for remote metering without a switchboard and qualification required for this arrangement.	4.5
Step 7 reworded to "Visually check MEN terminal block, earth stud and earth rod connections are completed. " Add new step 8 " Test continuity between the MEN terminal block and column to ensure less than 0.5 Ω resistance". Old step 18 removed	4.9
Moved old 4.10 Public Lighting – Without Switchboard to this new section. Removed asterix from diagram for step 8. Step 8 added IR value for light head connected or disconnected, due to possible damage to LED light head when testing.	4.9.1

New procedure for street light column with customer metered supply. This section is informative only.	4.10
Added a note for Step 2 'remove service fuse/s' for additional precautions are required under shutdown conditions where the fuse has not been removed prior to disconnecting the service and dropping the service to the ground.	4.11
The header for alternative NITP has changed to reflect it is a "method for establishing an alternative NITP", as feedback was people consider that this was the only test required and not completed all of the testing steps as per the procedure.	4.11
Section 4.11A, 4.11B and 4.11C have been renumbered to 14.11.1, 14.11.2 and 4.11.3 respectively.	
New step 15, ensure consumer's mains are accessible in pit and separated in preparation for consumer main test. Additional note added for step 16. IR test required when customers mains are disconnected from the DB's pole i.e., pole replacement work. IR test is not mandatory where pole to pit has been disconnected. IR value for existing installation changed from 5 to 1 megohm as per SIR. Meg Ohm changed to megohm as per spelling in ES(G)R 2019	4.11.1
IR value for existing installation changed from 5 to 1 megohm as per VSIR. Meg Ohm changed to megohm as per spelling in ES(G)R 2019	4.11.2 & 4.11.3
Section 4.14A and 4.14B have been renumbered to 14.14.1 and 4.14.2 respectively.	
Reformatted heading to align with other procedures layout.	4.14.1
Section 5 renumbered due to removal of old section 5.1 table of contents.	5
Updated M1120 NST screen display to include V1 & V2 models	5.1.2
New section for Digital Supply Connection Tester Starlogx SCT16(415) Screen Display	5.1.3
New section for Digital Supply Connection/ Loop Impedance Tester SLIM SL5215 Screen Display	5.1.4
Replaced Other Sources with Supplementary in title. Updated labelling for embedded generators. Removed the mandatory requirement to lock main switch for alternative supply to secure in the off position	5.3
Updated Orders in Council to reflect new G51 was published in December 2020 and G17, G33 & G36 have now being revoked	5.4
Updated ESV safety alert	5.5