

SBOM NLP Validation Report

Validation Parameters

Workcenter Plant Reference:	002
Workcenter Production Area Reference:	015
Workcenter Use Single Final Assembly:	Yes
NLP Model Used:	en_core_web_sm

Report generated on: 2025-05-24 22:18:12

NLP-based Twisted Wires Validation Results

FAILURE: Mismatches found between SBOM and Excel

NLP Processing Details:

- * Pitch mismatch for 41(1): XML=25.0, Excel=20.0
- * Open end length 2 (untwist b) mismatch for 41(1): XML=55.0, Excel=50.0
- * Pitch mismatch for 51(1): XML=25.0, Excel=20.0
- * Open end length 2 (untwist b) mismatch for 51(1): XML=55.0, Excel=50.0
- * Pitch mismatch for 41(1): XML=25.0, Excel=20.0
- * Open end length 2 (untwist b) mismatch for 41(1): XML=55.0, Excel=50.0
- * Pitch mismatch for 51(1): XML=25.0, Excel=20.0
- * Open end length 2 (untwist b) mismatch for 51(1): XML=55.0, Excel=50.0
- * Wire 20(1) not found in Excel sheet
- * Wire 43(1) not found in Excel sheet
- * Wire 55(1) not found in Excel sheet

NLP Validation Summary

Validation Category	Issues Found	Status
Work Center Attributes	0	PASS
Twisted Wires (NLP Validation)	11	FAIL
OVERALL NLP VALIDATION STATUS	11	FAIL

NLP Processing Notes

1. This validation used spaCy's NLP model (en_core_web_sm) to parse wire descriptions.
2. The system extracts wire numbers, colors, and measurements from natural language descriptions.
3. Comparisons are made with a tolerance of ± 0.01 for floating point values.
4. Some descriptions may be parsed differently than regex-based approaches.

*This is an automatically generated NLP validation report
For any discrepancies, please contact the validation team*