# **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 22:26:53

Work Center Validation Results					
Validation Item	Input Value	XML Value	Status		
Workcenter Plant Reference mismatch	002	01	Mismatch		
Workcenter Production Area Reference m	i <b>sh</b> atch	002	Mismatch		

## **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
- \* 20(1) missing in Excel
- \* 43(1) missing in Excel
- \* 55(1) missing in Excel

NLP Validation Summary				
Validation Category	Issues Found	Status		
Work Center Attributes	2	FAIL		
Twisted Wires (NLP Validation)	11	FAIL		
OVERALL NLP VALIDATION STATUS	13	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  $\pm 0.01$  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