

# SBOM NLP Validation Report

## Validation Parameters

Workcenter Plant Reference:	002
Workcenter Production Area Reference:	01
Workcenter Use Single Final Assembly:	Yes
NLP Model Used:	en_core_web_sm

Report generated on: 2025-06-06 16:35:49

## Work Center Validation Results

Validation Item	Input Value	XML Value	Status
Workcenter Plant Reference mismatch	002	01	Mismatch
Workcenter Production Area Reference mismatch	001	001	Mismatch

## NLP-based Twisted Wires Validation Results

**FAILURE: Mismatches found between SBOM and Excel**

### NLP Processing Details:

## NLP Validation Summary

Validation Category	Issues Found	Status
Work Center Attributes	2	FAIL
Twisted Wires (NLP Validation)	0	PASS
<b>OVERALL NLP VALIDATION STATUS</b>	<b>2</b>	<b>FAIL</b>

## 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*