

STANDARD INFORMATION

Standard: UL Subject 2011

Standard ID: Outline of Investigation for Machinery [UL SUBJECT 2011:2021 Ed.6]

Previous Standard ID: Outline of Investigation for Machinery [UL SUBJECT 2011:2020 Ed.5]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **December 16, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Preshipment requirements for machinery shipped in sections and reassembled in the field
- New appendix for powder bed additive manufacturing machines
- New appendix for machines with pressure rated equipment and pressure vessels
- New appendix for machines which employ lasers

Specific details of new/revised requirements are found in table below

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

| CLAUSE | VERDICT | COMMENT |
|------------|---------|--|
| 56 | Info | Preshipment |
| | | Prior to being shipped from the manufacturing facility, machinery shall be subjected to the tests indicated in Table 56.1 |
| 56.1 | | <u>Machinery shall be completely assembled, wired, and tested by the manufacturer before shipment from the factory. Machinery shall be subjected to the tests indicated in Table 56.1.</u> |
| | | <i>New clause added;</i> |
| 56.2 | | Machinery shipped in sections shall be completely assembled, wired, and tested by the manufacturer before disassembly and shipment from the factory. |
| | | <i>New clause added;</i> |
| 56.3 | | Machinery shipped in sections shall be reassembled in the field, and the proper assembly shall be verified by the manufacturer or designated representative. |
| | | <i>New appendix added;</i> |
| | | REQUIREMENTS FOR POWDER BED ADDITIVE MANUFACTURING MACHINES AND ASSOCIATED POWDER HANDLING EQUIPMENT |
| Appendix B | | These requirements address identified hazards associated with handling combustible particulate solids, or combustible dusts associated with powder bed additive manufacturing machines and the powder handling equipment associated with such a process, to comply with the requirements found in NFPA 484, NFPA 652, NFPA 654 or NFPA 499, as is applicable, to minimize the risk of flash fire or explosion. See standard for details. |
| | | <i>New appendix added;</i> |
| | | REQUIREMENTS FOR MACHINES WITH PRESSURE RATED EQUIPMENT AND PRESSURE VESSELS |
| Appendix E | | The requirements in this Appendix apply to machines employing pressure rated equipment and pressure vessels employing other than flammable or combustible fluids. See standard for details. |



| CLAUSE | VERDICT | COMMENT |
|------------|---------|---|
| | | <i>New appendix added;</i> |
| Appendix F | | REQUIREMENTS FOR MACHINES WHICH EMPLOY LASERS The requirements in this Appendix apply to machines employing lasers. See standard for details. |
