

ISO/ASTM TS 52930:2021-11 (E)

Additive manufacturing - Qualification principles - Installation, operation and performance (IQ/OQ/PQ) of PBF-LB equipment

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Abbreviated terms | 2 |
| 5 | General concepts | 3 |
| 5.1 | General | 3 |
| 5.2 | Preliminary considerations | 4 |
| 6 | Elements of process validation | 4 |
| 6.1 | General | 4 |
| 6.2 | Installation qualification (IQ) | 5 |
| 6.2.1 | General | 5 |
| 6.2.2 | Specific considerations for installation qualification | 5 |
| 6.3 | Operational qualification (OQ) | 8 |
| 6.3.1 | General | 8 |
| 6.3.2 | Specific considerations for operational qualification | 9 |
| 6.4 | Performance qualification (PQ) | 11 |
| 6.4.1 | General | 11 |
| 6.4.2 | Specific considerations for performance qualification | 11 |
| 6.4.3 | Deterioration of products | 13 |
| 7 | Revalidation | 13 |
| Annex A (normative) Process capability evaluation (Statistical process control) | | 15 |
| Bibliography | | 19 |