

Guide to service life journal for pressurised equipment

Information within brackets ([...]) in this document refers to local regulations.

Scope

This guide aids the process industry in drawing up service life journals for pressurised equipment. Service life journals are important for gaining good knowledge of a plant's life cycle.

Properly used, this guide can help the user to

- gain a safer plant with a known life expectancy.
- be able to plan replacement or renovation in time instead of when unplanned.
- plan for revision control if the object can be used for longer than the life expectancy.
- gain a better knowledge of the condition of the objects in the plant.
- create a clear basis for third-party control of the objects.
- assess the remaining life span in terms of time. This can be used by inspection bodies to determine intervals for third-party controls.

The service life journal requirement took effect on 01/12/2019 in [AFS 2017:3]. The latest amendment applies.

Contents

| | | |
|----------|--|----------|
| 1 | Related documents | 2 |
| 2 | Terminology | 2 |
| 3 | Background | 3 |
| 4 | Preparatory work – classification, risk assessment and plan for in-service inspection | 3 |
| 5 | Methods of producing a service life journal | 4 |
| 5.1 | Inventory of objects | 4 |
| 5.2 | Contents of a service life journal | 4 |
| 5.3 | Specification of an object | 5 |
| 5.4 | History | 5 |
| 5.4.1 | Deviations, incidents and accidents | 5 |
| 5.4.2 | Risk assessment | 6 |
| 5.4.3 | In-service inspection | 6 |
| 5.4.4 | Testing and status assessment | 6 |
| 5.4.5 | Analysis | 6 |
| 5.4.6 | Third-party control | 6 |
| 5.5 | Assessment and determination | 6 |
| 6 | Maintenance of the service life journal | 6 |
| 7 | References | 7 |