

AFCEN RSE-M Errata 008 – EN

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Section A

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Correction of the perimeter of
installations, integrations, and
set-up in compliance with
COLENS47

A 1300 TERMINOLOGY

A 1310 INSTALLATION OPERATION

The *installation operation* is defined as the connecting of pressure ends of a new pressure equipment declared compliant with another pressure equipment.

It is performed under the responsibility of the Owner.

A 1320 INTEGRATION OPERATION

The *integration operation* entails:

- connecting a nuclear pressure equipment undergoing conformity assessment, i.e. not yet declared as compliant.
- permanent joint directly between supports or other components and pressure parts of a nuclear pressure equipment or nuclear assembly undergoing conformity assessment.

A 1330 SET-UP OPERATION

Set-up operations for a new pressure equipment that has been declared compliant cover all operations other than the connection of pressure ends.

Set-up operations may include the following:

- Operations involving permanent joints that are not applied directly to the enclosure (for positioning foundations and supports, attaching insulation, sensors, etc),
- Non-permanent joining operations,
- Non-destructive examinations PSI (VCI),
- Positioning and set-up of devices to protect against exceeding the allowable limits,
- Creating seal welds,
- Flushing systems,
- Functional tests.

Any items not covered by the list above shall be discussed with the administrative authority beforehand.

A 1340 MAINTENANCE OPERATION

Maintenance operations cover all activities enabling the safety level of the component to be maintained at the required design level or enabling components to be restored to a state enabling them to perform a given function.

Maintenance operations may be preventive or corrective in nature. They are performed under the responsibility of the Owner.

- a) "Preventive maintenance" is carried out at pre-determined intervals or according to pre-defined criteria (e.g. thresholds, changes in parameters), with a view to reducing the probability of component failure or damage to functions.

It may be performed in one of two ways:

- scheduled maintenance as per a pre-determined schedule,

- conditional maintenance based on surveillance of components and/or parameters which are representative of damage to components (assessment of condition and comparison with a pre-defined acceptance criterion).

Preventive maintenance operations are also called "general upkeep operations". They include such things as high pressure jetting, chemical cleaning, etc.

- b) "Corrective maintenance" is performed following detection of *component* failure, its purpose being to restore the required properties of the component.

There may be two types of corrective maintenance:

- palliative maintenance (generally known as troubleshooting or temporary repair), intended to enable a component to temporarily perform a required function, either in part or in full,
- curative maintenance, with a view to enabling a component to be repaired to a specified state or to permanently perform a required function). It may take the form of:
 - o repairs,
 - o *modifications*.

Corrective maintenance operations include the following:

- operations such as fitting ice plugs,
- the following requalifications:
 - o qualification renewal following a significant maintenance operation (A 2300),
 - o intrinsic qualification renewal or functional qualification renewal following on from the preceding activities (A 2400).

These operations may change according to the following:

- actual use of the components,
- changes in the properties of the materials and *defects* observed,
- feedback and results of *periodic requalifications*,
- improved design and manufacturing techniques,
- component obsolescence or *manufacturer* defaults,
- improved maintenance methods,
- maintenance strategy decisions.

1300 TERMINOLOGY**A 1310 INSTALLATION OPERATION**

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Note: an operation entailing replacing a component in service with a new component that has been declared compliant and is on the market, is not a maintenance operation, but an *installation operation* (A 1310).