

# **AFCEN RCC-M Errata 010 – EN**

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**afcen**

AFCEN

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# AFCEN RCC-M Errata 010

## NOTE TO USERS

This document provides the corrections described in the table below, affecting the code editions, versions and paragraphs mentioned.

Code edition(s)	Version(s)	Errata description	Paragraph(s)
2018, 2020	English, French	<i>Addition of volumetric NDT for socket welds for level 2 components. This correction is mandatory to ensure compliance with ESR 3 of Annex II of ESPN order.</i>	ZY 330

Modified pages are presented in chronological order for 2018 and 2020 editions.

Modified parts of text appear in red.

These conditions shall apply for:

- The use of system films of class:
  - C1 and C2 for Ir192,
  - C1, C2, and C3 for Se75,
- Compliance with geometric unsharpness  $\leq 0.30$  mm.

For joints examined using X-rays, as many exposures as necessary shall be made in order to ensure the whole of the volume to be examined is covered(\*). The length that can be interpreted on the radiograph must be stated.

(\*): The coverage of the whole of the volume to be examined can be determined by using a full-scale working drawing or by technical analysis and verified using markers or indexes (positioned on the source side) visible on the radiograph, outside the area to be examined and equally spaced, according to the number of exposures. Double film viewing can be supplemented with a single film viewing under the conditions of the MC 3312.5.2b.

In addition to S 7742 2) and unless otherwise justified by the manufacturer, pressure resistant socket welds are all examined by radiographic test. Where the radiographic test is not feasible, liquid penetrant tests during welding must be carried out in accordance with Table S 7720.2.

### Examination reports

The non-destructive testing required by ESR 3 in Annex 2 of the Nuclear Pressure Equipment Order shall be the subject of a systematic test report.

### Approval of welding procedures and personnel

The competent third party which approves the procedures and personnel for permanent joining is a certified organisation with the meaning of 11. a) i. or 11. a) ii. of article R. 557-4-2 of the environmental code.

The recognised third party organization which approves personnel who performs non-destructive testing of permanent joints is a certified organisation as per 11. a) ii. of article R. 557-4-2 of the environmental code.

## ZY 330 ESR 4 MATERIALS

### Permanent joining

The production of permanent welded joints subject to the fundamental safety requirements set out in Annexes 1 and 2 of the Ministerial Order dated 30/12/2015 shall be covered wherever possible by welding procedure qualifications including impact tests. To this end, Notes (7) and (8) of the respective tables in S3201.a and b and S3200, Paragraph 7.4.5 shall apply. This requirement shall likewise apply to materials that are not subject to ductile-brittle transition under the foreseeable conditions of use of the equipment (austenitic stainless steels and nickel-based alloys).

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