

NOTE TO USERS

For the 2022 Edition, subsections A, B, C and D from the previous RSE-M editions have been reformulated using the Requirement Engineering format and the RSE-M has also been restructured. The general rules are still marked with a letter A in the requirement engineering system and the specific rules with the letters B, C and D depending on the classification of the components covered.

The principles adopted by AFCEN for the reformulation and restructuring of the RSE-M are as follows:

- The RSE-M is designed to act as a contractual tool to be used by the *Owner* and the *Contractors*. It therefore contains requirements designed to assist the *Owner* to conclude the correct contracts and requirements for the *Contractor* relating to the performance of in-service inspections and maintenance.
- The purpose of the RSE-M, which is based to a great extent on practices and EDF operating experience, is not to reproduce EDF's operational documents. Its purpose is to provide upstream or common requirements in order to avoid having to reproduce them in the different specifications of the *Owners*.
- Since the RSE-M is also based to a great extent on French regulations, the specific features relating to French regulations are identified and handled, wherever possible, through references to the regulations.
- The annexes have not been converted into the requirement engineering format because they contain tables, figures or formulae. Consequently, the sections of the code that contain almost only tables (for example, B 8500 in the 2020 Edition) or figures (A 1235 in the 2020 Edition) have been moved to the annexes in the 2022 Edition.
- The annexes that do not appear to be in use (no owner operating experience, Modification Requests (MR (DM)), Interpretation Requests (DI) or recent updates), which do not take account of the latest practices, which do not fall under the scope of the RSE-M as defined or which are redundant in that they overlap with information handled in the rules of the RSE-M have been deleted.
- Due to the complete overhaul of the RSE-M in the 2022 Edition, the modifications to the general and specific rules (formerly subsections A, B, C and D) made by the Modification Sheets (MS) are not indicated via bars in the margin. As the annexes have not been converted to the requirement engineering format and overhauled, the modifications made to the annexes by the MS are indicated via bars in the margin.

The requirement engineering drafting principles are as follows:

- The requirement engineering drafting ensures that the person responsible for the requirement is clearly identified.
 - Each requirement is unique. Any overlaps between chapters have therefore been deleted.
 - Each requirement deals with a single subject.

The RSE-M, which covers In-Service Inspection and Maintenance, is divided up into 3 sections:

- The common rules, which cover
 - o Use of the code
 - o The requirements common to inspections and maintenance
- The rules relating to In-Service Inspections
- The rules relating to Maintenance

The following table presents the breakdown of the 2022 Edition. The last column shows the corresponding chapters or annexes from the 2020 Edition.

RSE-M (a)		2022Ed	2020 Ed	
Common rules	Rules for using RSE-M	1000		
	Rules for using RSE-M	1100	A 1000	
	Scope of application of RSE-M	1200	A 1000	
	Quality	1300	A 1400	
	List of codes, technical publications and applicable standards	Annex 1.1	Annex 1.3	
	Figures for classification in categories	Annex 1.2	A 1235	
	Rules relating to the performance of a hydrostatic test or a hydraulic proof test (b)	Annex 1.3	A 2500	
	Cleanliness (c)	2000		
	Limiting contaminating compounds	2100	A 1640	
	Cleaning and cleanliness checking	2200	A 1650 and A 1660	
	Placing in outage conditions	2300	A 1700	
	Cleaning and cleanliness inspection rules	Annex 2.1	A 1600	
	In-service inspection	Periodic inspections and requalifications (d)	3000	
		Periodic inspections (program, zero point/ <i>PSI</i> (<i>VCI</i>) and performance)	3100	§ 3000
Periodic requalifications		3200	§ 2000	
Non-destructive Examinations and other examination methods (e)		4000	§ 4000	
Certification, qualification and accreditation of personnel		4100	A 4700	
Description of NDE methods and other examination methods		4200	A 4200 and A 4600	
Qualification of an NDE		4300	§ 4300	
Implementation of NDE and other methods		4400	A 4800 and A 4900	
Adjusting profiles and surface conditions		Annex 4.1	Annex 4.1	
NDE documentation		Annex 4.2	Annex 1.6 (IV and V)	
Examples of qualification of an NDE application		Annex 4.3	Annex 4.3 (partial)	
NDE, surveillance and inspection methods		Annex 4.4	Annex 4.4 and B 4400	
Indication processing (TI) (f)		5000	§ 5100	
Detection		5100	§ 5200	
Discrimination		5200	§ 5200	
Deviation processing (DTE)		5300	§ 5300	
Choice and implementation of a processing solution		5400	§ 5400 and § 5500	
Defect assessment methods		Annex 5.0	Annex 5.0	
Defect geometry		Annex 5.1	Annex 5.1	
Defect acceptability table		Annex 5.2	Annex 5.2	
Fatigue and plastic instability analysis methods		Annex 5.3	Annex 5.3	
Analytical methods for calculating stress intensity factors and J integral		Annex 5.4	Annex 5.4	
Detailed analysis of a planar defect - mechanical acceptability criteria		Annex 5.5	Annex 5.5	
Material properties		Annex 5.6	Annex 5.6	
Detailed analysis of a volumetric defect		Annex 5.7	Annex 5.7	
General principles concerning the use of partial safety factors		Annex 5.8	Annex 5.8	
Deviation Processing File (DTE)		Annex 5.9	New Annex	
Consistency file		Annex 5.10	Annex 1.5	
Mechanical analysis for in-service integrity of PWR vessels		RPP 2	RPP 2	
Alternative multiple planar defect interaction method		RPP 3	New RPP	
In-operation surveillance (g)		6000	§ 6000	
Surveillance of leaktightness		6100	§ 6100	
Surveillance and transient monitoring and recording	6200	§ 6200		
Surveillance of irradiation effects	6300	§ 6300		
Quantification of steam leak rates	Annex 6.1	Annex 4.4 (lv.1)		
Detection of loose parts in the MPS (CPP)	Annex 6.2	Annex 4.4 (III.1)		
Maintenance	Implementation of a Maintenance Operation (MO) (h)	8000		
	Designing a maintenance operation	8100	§8100 and 8500 (classification)	
	Spare parts	8200	§ 8200	
	Qualifying a maintenance operation	8300	§ 8300	
	Performing a maintenance operation	8400	§ 8400	
	Maintenance intervention methods	Annex 8.1	Annex 8.1	
	Applicable provisions to meet the requirements of French <i>pressure equipment</i> (NNPE (ESP)/NPE) regulations	Annex 8.2	Annex 1.8	
	Rules for applying the RCC-M for maintenance operations	Annex 8.4	Annex 1.4	
	Classification of interventions on the MPS-MSS (CPP-CSP)	Annex 8.5	B 8500	
Content of the Maintenance Operation File (MOF (DOM))	Annex 8.6	Annex 1.6 (I and II)		
Glossary	Technical Publication	AFCEN-RS-20-001-A (i)	A 1300 and Annex 1.1	

Note (a) : Scope of application of RSE-M

Following discussions with the RCC-M subcommittee, it was decided that:

- Only installations performed within the context of maintenance operations, i.e., component replacements or additions following functional modifications, remain within the scope of the RSE-M. Since these “in-service” installations are regarded as a type of maintenance operation, the requirements of paragraph 7000 in the 2020 Edition are moved to paragraph 8000 in the 2022 Edition.
- Installations performed within the context of the construction of new PWR plant units are excluded from the scope of the RSE-M. The requirements of paragraph 7000 in the 2020 Edition have been removed from the RSE-M, as has Annex 7.1 on the construction of new plant units, the content of which is covered by the AFCEN PTAN project and is already listed in the operational documentation for the only project concerned (EPR2).
- The definitions of the terms “installation operation” and “integration operation”, which were amended by MS 330, are now included in the glossary AFCEN-RS-20-001-A.

Note (b): Conditions for performing a hydrostatic test or hydraulic proof test

The conditions for performing a hydraulic test or hydraulic proof test, which were laid down in A 2000 in the 2020 Edition, are common technical rules, whether they relate to the performance of requalification tests or requalification hydrotests or are performed subsequent to significant interventions. These rules have been moved to a dedicated annex (Annex 1.3).

Note (c): Cleanliness

The cleanliness requirements (applicable to implementation of NDE and maintenance operations) are now grouped together in a dedicated general rules chapter, Chapter 2000, and supplemented by an annex that lays down the conditions for cleaning and cleanliness inspections (Annex 2.1).

Note (d) : Periodic requalifications

The requalification requirements, including an inspection followed by a proof test, which were contained in A 2000 in the 2020 Edition, have been placed in paragraph 3000 after the periodic inspection requirements in order align the structure of the code with the chronological sequence of actions.

Note (e) : Non-Destructive Examinations

Paragraph 4000 and the corresponding Annex 4 have been restructured so that all of the requirements relating to the *NDE* qualification process are contained in a dedicated paragraph rather than spread across several paragraphs and Annex 4.3. Paragraph 4000 is now divided into 3 parts: the first part covers the requirements relating to qualifications, the second the requirements relating to the implementation of *NDE* processes and the last part covers the qualification process for an *NDE application*.

Annex 4.2, which had not been used hitherto, now groups together the information relating to the documentation required in paragraph 4000 (*NDE* procedure, *NDE* report, qualification file, etc.)

The specific details relating to implementation of the methods for the *MPS-MSS (CPP-CSP)* have been moved from B 2000 in the 2020 Edition to Annex 4.4 in the 2022 Edition.

Note (f) : Indication Processing

The process application logic diagrams for Indication Processing (TI) described in Chapter 5000 in the 2020 Edition have been replaced by a simplified logic diagram (Figure A 5000-01), which recalls the main stages of indication processing. Each paragraph in Chapter 5000 comprises fully described requirements setting out each of these stages. The information relating to formal implementation of the indication processing, i.e., compiling the Deviation Processing File (DTE), is now grouped together in a new annex, Annex 5.9. This annex is followed by Annex 5.10, which reproduces the content of Annex 1.5 in the 2020 Edition relating to the compiling of consistency files, i.e., single files for processing similar indications.

Note (g) : In-operation surveillance

The parts of Annex 4.4 in the 2020 Edition relating to measuring the steam flow rate and in-operation detection of loose parts have been moved to the new Annexes 6.1 and 6.2, which are associated with paragraph 6000 ‘In-Operation Surveillance’.

Note (h) : Maintenance Operation

Chapter 8000 has been restructured in order present the activities in chronological order, starting with the design of a maintenance operation, including the reflections relating to its classification, followed by the procurement of spare parts, the qualification of the maintenance operation, where applicable, its implementation and, finally, requalification following the maintenance operation.

The classification rules in B 8500 in the 2020 Edition have been moved to Annex 8.5, which is a section that describes in full the classification of interventions on the MPS-MSS (CPP-CSP), which makes the requirements easier to read and harmonises organisation of the code across the specific rules B, C and D since the classification rules for C and D are already defined in separate guides.

Annex 1.4 in the 2020 Edition, which contains the amendments to the RCC-M for use in maintenance, end-of-manufacturing or integration operations carried out on plant units in operation, is now Annex 8.4 in the new edition.

Annex 1.8 in the 2020 Edition, which contains the amendments to Annexes ZZ and ZY of the RCC-M for use on NNPE (ESP)/NPE (ESPN) in maintenance, end-of-manufacturing or integration operations carried out on plant units in operation, is now Annex 8.2 in the new edition.

The sections of Annex 1.6 in the 2020 Edition relating to the establishment of the Maintenance Operation File have been moved to Annex 8.6.

Note (i) : Glossary

Within the framework of the instructions to guides accepted pursuant to the Order of 30/12/2015 as amended, the French Nuclear Safety Authority has requested the creation of a common glossary to avoid definitions being repeated across the different guides.

Since a large number of terms in these guides are also used in other AFCEN PTANs and in the RSE-M, AFCEN has decided to develop a common glossary (AFCEN-RS-20-001). This glossary groups together terms defined previously in the terminology paragraph (A 1300) and in Annex 1.1 of the RSE-M.

The terms defined in the glossary are shown in italics in the general and specific rules of the RSE-M.

The terms specific to a scope of the RSE-M are recalled in the glossary and ascribed a reference number that indicates the scope of application of this definition (IP for Periodic Inspections, NDE for Non-Destructive Examinations, TI for Indication Processing, MO for maintenance operations).

Annexes

Annex 1.0 in the 2020 Edition has been deleted. This annex is no longer needed because the annexes referred to in a requirement are now binding whereas those referred to in a suggestion are optional except if the *Owner* makes them binding in the contract.

Annex 1.1 in the 2020 Edition has been replaced by the glossary AFCEN-RS-20-001, which is common to the RSE-M Code and the PTAN.

Annex 1.2 in the 2020 Edition, which provided information about the meaning of the acronyms relating to the French PWR systems, has been deleted. This annex is not referred to by the code and its content is not needed to understand the code.

Annex 1.3 of the RSE-M 2020 is now Annex 1.1 in the 2022 Edition. It provides information about the preparation of documents (codes, standards, PTAN) referred to by the RSE-M.

Annexes 3.1.I and 3.1.II used to provide examples of inspection programmes based on EDF practices dating back a number of years and were not updated and no proposed modifications were put forward by other Owners. The code requires that a programme be established and kept up to date. The Owners have their own programmes and these informative annexes of the code do not need to exist side by side with the code. They have therefore been deleted. The information can still be accessed by consulting the earlier versions of the code.

Annex 5.2 is still an informative annex.

Annex 8.2 entitled 'Qualification of an NDE application for a repair' has been deleted because this annex does not add any requirements to the general qualification process described in paragraph 4000. The only specific feature of this annex is that it is a requalification mode following a significant intervention pursuant to B 8500. This aspect is now addressed in the new Annex 8.5 on the classification of interventions, which reproduces paragraph B 8500 in the 2020 Edition and is amended by MS 338, 339 and 340. It is specified in paragraph I.3.2.2 of Annex 8.5 that qualifications of NDT are carried out in accordance with the general procedure in paragraph 4300.

Classification of Modification Sheets (MS) in the RCC-M

The classification of MS in the RCC-M as of the 2020 Edition, which was carried out by the RCC-M subcommittee, identifies:

- The MS that have an impact on the safety and security of the component.
- The MS needed to analyse the suitability for erection of the MPP intended for the MPS-MSS (CPP-CSP), as required by the amended Order of 10/11/1999.

This classification is published under the reference AFCEN-PTAN-07001.

Annex 8.3 of the 2020 Edition of the RSE-M, which contained the safety classification of the MS in the RCC-M up to and including the 2020 Edition, has thus been deleted from the 2022 Edition of the RSE-M. Its content, which provides the classification of MS in the RCC-M up until the 2018 Edition, is published under the

reference AFCEN-PTAN-09001.

Classification of Modification Sheets (MS) in the RSE-M

The classification of MS in the RSE-M as of the 2022 Edition is published under the reference AFCEN-PTAN-09002.

The RSE-M Code is subject to periodic changes to incorporate accepted modification requests, international operating experience and changes to industrial practice and technology. Users can submit interpretation or modification requests to AFCEN.

If the user sends AFCEN an interpretation or modification request, the user shall use the forms provided at the website www.afcen.com.

When a user sends a interpretation request, he shall draft the proposed interpretation in such a way that AFCEN can confirm or reject this interpretation.

When a user sends a modification request, he shall draft the proposed modification and an explanation for the request.

SUMMARY TABLE OF THE MODIFICATION SHEETS FOR THE 2022 EDITION

N: New Text; R: Rewritten text; A: Text layout; S: Suppression of text.

MS N°	Text impacted	Action	Purpose
323	Annex 5.4: Table VII.4.1.2.2.a Table VII.4.1.2.2.c Table VII.4.1.2.2.e	A	This modification request comes in the wake of interpretation request DI3-018 relating to the analytical formulae for shear stresses in an elbow bend under a mechanical load M2 (plane bending).
324	Annex 8.4 (former Annex 1.4_2020 Ed.): I.3 (§ 1 - S 7810)	N	Modification limited to the addition of the term “formed parts” to produce weld test coupons.
325	Annex 5.7: Table II.3.2.1	A	Alternative formula of χ for straight pipes
326	§ 1230 (former subsection A: § A1230_ 2020 Ed.)	A	Clarification of § 1230 relating to the requirements for welds at the interface between different level equipments.
327	Annex 5.6: § IV.1.3	A	Update of the ductile tearing initiation resistance (J0.2) and ductile tearing resistance values using the new ductile tearing resistance database for austenitic stainless steel welded joints made using wire/flux and electrode weld technology produced by shielded metal arc welding (SMAW) or submerged arc welding (SAW) process.
328	Annex 5.6: § II.2 -Table 5.6.3	A	Addition of clarification of the fact that codified fatigue crack growth laws are conservative laws.
329	Annex 8.5 (former subsection B 2020 Ed.): Table B 8500-13 sheet 5/5	A	Modification of the significance of the classification of cases A)2) and B)1).
330	§ 1300 (former subsection A: § A1300_ 2020 Ed.)	A	The definitions “installation operation”, “integration operation” and “implantation operation” have been moved to the glossary AFEN-RS-20-001 and updated in line with sheet COLEN S47.
331	RPP3	N	Introduction, as an RPP, of a new alternative method for <i>defect</i> interactions.
332	Annex 5.4: All §Chapter VII.6	N	Insertion in the code of a new compendium covering the specific case of <i>defects</i> in nozzle corners
333	Annex 5.1: §VI	N	Clarification of the methods than can be used for <i>defect</i> interactions.
334	Annex 5.6: §IV.1.4.1, §IV.1.4.2, §IV.1.4.3	N	Insertion of a formula for determining the toughness of carbon-manganese steels based on the TK5 value.
335	Annex 5.4: § VII.5.1.4	N	Clarifications relating to the calculation of KI for through-wall <i>defects</i> in a plate.
336	Annex 5.4: §IV.2.1 and §IV.2.3, Tables VII.2.2.3.4.a and VII.2.2.4.4.a	N/A	Extension of the scope of validity of the JS CEP method for defects of the TUB-CDAI and ELB-CDAI type. The proposed scope of validity is $a/t \leq 0.5$.
337	Annex 5.3: § III.1.2.3	N	Inclusion in the code of a formula for reduced section coefficients for longitudinal <i>defects</i> in straight pipes and the pressure load

MS N°	Text impacted	Action	Purpose
338	Annex 8.5 (former B 8500_2020 Ed.): § B 8521 § B 8523 A) § B 8532-1 Tables: - B 8500-1 sheet 1/1 - B 8500-2 sheet 1/1 - B 8500-3 sheets 2/3 to 3/3 - B 8500-4 sheet 1/1 - B 8500-5 sheets 1/6 to 5/6 - B 8500-6 sheet 1/5 - B 8500-6 sheets 2/5 to 5/5 - B 8500-7 sheets 1/7 to 7/7 - B 8500-8 sheets 1/3 to 3/3 - B 8500-9 sheet 1/6 - B 8500-9 sheets 3/6 to 5/6 - B 8500-12 sheets 1/4 to 4/4 - B 8500-13 sheets 1/5 to 4/5 - B 8500-14 sheets 2/4 to 4/4	N/A	Corrections to B 8500 (texts and tables), which are now found in Annex 8.5 in accordance with decision DGSNR 03/0192, and the addition of a definition of automatic welding specific to use of the tables. Chapter B 8500 has been removed from subsection B and converted into Annex 8.5 for the 2022 version.
339	Annex 8.5 (former subsection B_ 2020 Ed.): - § B 8510 - Table B8 500-0 sheet 2/3 - Table B 8500-00 sheet 2/2	S/N	The case of interventions on supports added to the classification tables
340	Annex 8.5 (former subsection B_2020 Ed.): - Table B 8500-0 sheet 2/3 - Tableau B 8500-8-1 sheet 1/1	N	Insertion of a note in the tables to incorporate the specific provisions to be applied during significant interventions on SEBIM components
341	Annex 8.2 (former Annex 1.8_2020 Ed.): III-Applicable provisions § II - E3.2.2 Proof tests	N	Following instruction DI4-063, addition of a clarification regarding the conditions of performance of the proof tests depending on where they are performed (workshop, factory or NPP)
342	Annex 8.5 (former subsection B_2020 Ed.): Table B 8500--00 sheet 1/2	A	Repair of a non pressure-withstanding wall.
343	Annex 8.2 (former Annex 1.8_2020 Ed.): § III – E2.2.3 a § ZY 400 Annex 8.4 (former Annex 1.4_2020 Ed.): § S 1200 § S 7610 § VOLUME V “F 2200 d) and F 2400 b)”	N	Account taken of the impacts of the MS in RCC-M 2022
344	Rules and Annexes	R	General rules (A) and specific rules (B, C and D) rewritten in the requirement engineering format and restructuring of the rules and annexes (see note for users for more information)

SUMMARY TABLE OF THE PARAGRAPHS IN THE ANNEXES IMPACTED BY THE MODIFICATION SHEETS IN THE 2022 EDITION

In light of the overhaul of subsections A, B, C and D, only the impacts of the MS on the annexes are identified below.

TEXTS MODIFIED	MODIFICATION SHEETS	MODIFIED OR ADDED PAGES
<u>Annex 5</u>		
<u>Annex 5.1</u>		
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<u>RPP3</u>		
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<u>Annex 8.4</u>		
§ S 1200	343	Annex 8.4/ 5
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§ S 7810	324	Annex 8.4/ 16
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TEXTS MODIFIED	MODIFICATION SHEETS	MODIFIED OR ADDED PAGES
<u>Annex 8.5</u>		
§ B 8510	339	Annex 8.5/ 02
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