

CONTENTS

FOREWORD.....4

INTRODUCTION.....6

1 Scope.....7

2 Normative references7

3 Terms, definitions and abbreviations8

 3.1 Terms and definitions8

 3.2 Abbreviations9

4 General9

 4.1 Development9

 4.2 Testing during installation.....9

5 ACCOMPANYING DOCUMENTS.....10

6 General requirements for operational safety11

 6.1 Distances and linear and angular dimensions11

 6.2 RADIATION quantities11

 6.3 Date and time format.....11

 6.4 Protection against unauthorized use.....11

 6.5 Data limits12

 6.6 Protection against unauthorized modification.....12

 6.7 Correctness of data transfer13

 6.8 Coordinate systems and scales13

 6.9 Saving and archiving data13

7 RADIOTHERAPY TREATMENT EQUIPMENT MODELLING and BRACHYTHERAPY SOURCE
MODELLING14

 7.1 EQUIPMENT MODEL14

 7.2 BRACHYTHERAPY SOURCE MODEL14

 7.3 Dosimetric information.....15

 7.4 EQUIPMENT MODEL, BRACHYTHERAPY SOURCE MODEL acceptance15

 7.5 EQUIPMENT MODEL, BRACHYTHERAPY SOURCE MODEL deletion.....16

8 ANATOMY MODELLING16

 8.1 Data acquisition16

 8.2 Coordinate systems and scales16

 8.3 Contouring of regions of interest17

 8.4 PATIENT ANATOMY MODEL acceptance17

 8.5 PATIENT ANATOMY MODEL deletion.....18

9 TREATMENT PLANNING18

 9.1 General requirements.....18

 9.2 TREATMENT PLAN preparation18

 9.3 TREATMENT PLAN identification18

 9.4 TREATMENT PLAN deletion.....19

 9.5 Electronic signatures.....19

10 ABSORBED DOSE distribution calculation19

 10.1 Algorithms used19

 10.2 Accuracy of algorithms19

11 TREATMENT PLAN report20

 11.1 Incomplete TREATMENT PLAN report20

11.2 Information on the TREATMENT PLAN report	20
11.3 Transmitted TREATMENT PLAN information	21
12 General hardware diagnostics	21
13 Data and code	22
14 Human errors in software design	22
15 Change in software versions	22
16 USE ERRORS	23
Annex A (normative) Hardware safety	24
Annex B (informative) Imported and exported data	26
Bibliography	27
Index of defined terms	28
Table 1 – Clauses and subclauses in this standard that require the provision of information in the ACCOMPANYING DOCUMENTS and the technical description	10
Table A.1 – Table indicating correlation	24