

CONTENTS

1.	INTRODUCTION	1
1.1.	Background	1
1.2.	Objective.	1
1.3.	Scope	2
1.4.	Structure	2
2.	RADIATION PROTECTION AND REGULATORY CONTROL IN THE RUSSIAN FEDERATION	2
3.	THE SITE OF THE ACCIDENT	6
3.1.	The Russian Federal Nuclear Centre	6
3.2.	The critical assembly	7
4.	CIRCUMSTANCES OF THE ACCIDENT	10
5.	RESPONSE TO THE ACCIDENT	11
6.	DOSIMETRIC ANALYSIS	14
6.1.	Evaluation of radiation fields during the criticality event	14
6.2.	Dose estimates obtained by physical means	17
6.3.	Dose estimates obtained by biological dosimetry	22
6.4.	Dose estimates obtained by retrospective dosimetry	23
7.	MEDICAL TREATMENT OF THE PATIENT	25
7.1.	Introduction	25
7.2.	Medical response at Sarov	25
7.3.	Specialized hospital treatment in Moscow	26
8.	FINDINGS OF THE POST-MORTEM INVESTIGATION (AUTOPSY)	33
8.1.	Internal organs	33
8.2.	Arms after amputation	35

9.	FINDINGS AND LESSONS TO BE LEARNED	36
9.1.	Operating organizations	36
9.2.	The medical community	39
	REFERENCES	42
	CONTRIBUTORS TO DRAFTING AND REVIEW	45

