

TABLE OF CONTENTS

INTRODUCTION	1
CHAPTER 1: BACKGROUND INFORMATION	5
A PROFILE OF THE NUCLEAR POWER INDUSTRY IN CANADA.....	5
RADIOACTIVITY AND RADILOGICAL PROTECTION	6
THE CHARACTERISTICS AND DANGERS OF NUCLEAR FUEL WASTE	9
THE ENERGY CHALLENGE.....	12
CHAPTER 2: THE CANADIAN NUCLEAR FUEL WASTE MANAGEMENT PROGRAM: THE AGENCIES INVOLVED.....	15
THE REGULATORY FRAMEWORK	15
THE INSTITUTIONAL FRAMEWORK.....	15
A. Atomic Energy of Canada Ltd.	16
B. The Technical Advisory Committee on the Canadian Nuclear Fuel Waste Management Program.....	19
C. The Atomic Energy Control Board.....	20
CHAPTER 3: THE CANADIAN NUCLEAR FUEL WASTE MANAGEMENT PROGRAM: AN ANALYSIS	23
INTRODUCTION.....	23
THE TECHNICAL ASPECT	24
THE ASSESSMENT PROCESS	26
THE CONCEPT'S APPLICABILITY	28
APPENDIX A: THE RECOMMENDATIONS.....	35
APPENDIX B: REGULATORY OBJECTIVES, REQUIREMENTS AND GUIDELINES FOR THE DISPOSAL OF RADIOACTIVE WASTE — LONG-TERM ASPECTS	39
APPENDIX C: LIST OF WITNESSES	41

¹⁷ Jacques Leclerc, *The Nuclear Age*, Paris, Denoël, 1980, p. 18.

¹⁸ After a nationwide referendum in 1980, the Swedish Parliament decided that its nuclear power programme would be limited to the 12 powerplants then in operation or under construction.

¹⁹ World Commission on Environment and Development, *Our Common Future*, Oxford University Press, Oxford, 1987, p. 187.