

CONTENTS

1.	INTRODUCTION	1
2.	OUTLINE OF THE COMPLETE BID EVALUATION PROCESS AND DESCRIPTION OF THE ECONOMIC BID EVALUATION	3
	2.1. Outline of the complete bid evaluation process	3
	2.2. Details of the economic bid evaluation	11
	2.3. References	15
3.	CONTRACT APPROACHES	18
	3.1. Introduction	18
	3.2. Influence of the contractual approach on the economic bid evaluation	21
	3.3. Cost impacts from contract approaches	26
4.	BASIS FOR THE ECONOMIC BID EVALUATION	30
	4.1. Introduction	30
	4.2. IAEA account system	31
	4.3. Technical bid evaluation and interfaces with the economic bid evaluation	50
	4.4. Commercial and contractual terms and conditions	52
	4.5. Nuclear fuel cycle	52
	4.6. Domestic participation	56
5.	EVALUATION METHODS	57
	5.1. Introduction	57
	5.2. Criteria for economic ranking	59
	5.3. Economic evaluation methodology	60
	5.4. Economic parameters	65
	5.5. Treatment of uncertainties	74
	5.6. Special situations	77
6.	SOURCES OF FINANCING, FINANCING PROPOSALS AND ASPECTS OF THE ECONOMIC EVALUATION OF FINANCING PROPOSALS	83

6.1.	Introduction	83
6.2.	Financing plan	85
6.3.	Financing sources	87
6.4.	Financing proposals	94
6.5.	Aspects of the economic evaluation of financing proposals	97
7.	IMPLEMENTATION OF THE ECONOMIC BIDEVALUATION	99
7.1.	Introduction	99
7.2.	Organization of work and use of consultants and/or A/E	102
7.3.	Economic evaluation practice	102
7.4.	TCIC	105
7.5.	Nuclear fuel cycle costs	108
7.6.	O&M costs	109
7.7.	Power output and load factor	110
7.8.	Cost assessment of economic parameters	115
7.9.	Assessment of commercial and contractual conditions	115
7.10.	Total plant costs	125
7.11.	Contingency and range estimation	125
7.12.	Cost buildup for imported equipment	128
8.	TECHNOLOGY TRANSFER	129
8.1.	Introduction	129
8.2.	General considerations	130
8.3.	Domestic participation	132
8.4.	Assessment of technology transfer in the economic bid evaluation	137
8.5.	Concluding remarks	141
APPENDIX I:	FURTHER CONSIDERATIONS ON EVALUATION METHODS	143
APPENDIX II:	LIST OF TYPICAL BID DOCUMENTATION	155
ANNEX I:	IAEA ACCOUNT SYSTEM FOR NUCLEAR POWER PLANTS	164
ANNEX II:	IAEA COMPUTER PROGRAM FOR ECONOMIC BID EVALUATION	193

BIBLIOGRAPHY	212
GLOSSARY	213
CONTRIBUTORS TO THE REVISION OF THE TECHNICAL REPORT	223
CONTRIBUTORS TO THE DEVELOPMENT OF THE IMPROVED SOFTWARE BIDEVAL-3	224