TABLE OF CONTENTS

Section	Title	Page
1.0	INTRODUCTION	1-1
2.0	DOME AND CONSTRUCTION DESCRIPTION	2-1
2.1	Dome Description	2-1
2.2	Construction Description	2-1
3.0	FIELD OBSERVATIONS AND INVESTIGATION	3-1
3.1	Initial Observations	3-1
3.2	Dome Concrete Coring and Removal (Before Detensioning)	3-2
3.3	Detensioning of Tendons	3-3
3.4	Results of Instrument Readings During Detensioning	3-3
3.5	Dome Concrete Removal	3-6
4.0	MATERIALS INVESTIGATION	4-1
5.0	ANALYTICAL INVESTIGATION	5-1
5.1	Crane Loading	5-1
5.2	Temperature and Moisture	5-2
5.3	Sheathing Filler Pressure	5-2
5.4	Radial Tension Caused By Prestressing	5-3
5.5	Unbalanced Loads from Prestressing	5-4
5.6	Construction Joints	5-5
6.0	CONCRETE REPLACEMENT	6-1
6.1	Compatibility of the Original and Replaced Concrete	6-1
6.2	Surface Preparation	6-2
6.3	Additional Reinforcement	6-3
6.4	Repair of Reinforcing Steel, Tendons and Sheathing	6-3
6.5	Instrumentation	6-5
6.6	Method of Concrete Replacement	6-5
6.7	Post-Tensioning Sequence	6-6
6.8	Criteria	6-7
7.0	QUALITY ASSURANCE	7-1