

# Content

Forward	2
1. Introduction	3
2. The System	4
2.1 The Need Satisfying Function	
2.2 The Aviatrix	
2.3 The Aircraft	
2.4 The Sponsors	
2.5 The Team	
2.6 The Scholarship	
3. The Environment	17
3.1 Aviation portion of the atmosphere	
3.2 Aviation Hazards	
3.3 Airframe Icing	
3.4 Engine Icing	
4. The Operational Plan	23
4.1 The Operation Plan	
4.2 The Maintenance Plan	
4.3 The Support Plan	
4.4 Pre-Flight Publicity	
5. The Operational Process	34
5.1 Start: Birmingham 12 <sup>th</sup> January 2001	
5.2 Europe (UK, France, Italy, Greece, Cyprus)	
5.3 Asia (Jordan, Saudi Arabia, Oman, India, Thailand, Malaysia, Indonesia)	
5.4 Australia (Australia, New Caledonia, Fiji, Samoa, Kiribati)	
5.5 North America (USA, Canada, Greenland)	
5.6 Europe( Iceland, UK)	
5.7 Aircraft Failures	
5.8 Weather Based Delays	
6. The Maintenance Process	42
6.2 Preventive Maintenance	
6.3 Corrective Maintenance	
6.4 Condition Based Maintenance	
7. The Support Process	43
7.2 Operational Resources	
7.3 Maintenance Resources	
8. System Operational Success	44
8.1 Scheduled Arrival at the Birmingham International Airport: 17 <sup>th</sup> May 2001	
8.2 Personal Success	
8.3 Awards received by Polly in Recognition of ‘WINGS AROUND THE WORLD’	
8.4 Promotion of wheel chair people needs	
9. Epilogue	47
10 References	48