Detailed Report Content

Sections	Section Definition
Executive Summary (5 Pts)	Maximum of 2 pages
	Summary description of selected design and why it best meets the mission
	Describe key mission requirements and associated design features
	Format, completeness, readability
Management Summary (5 Pts)	Describe the organization of the design team
	Chart of design personnel and assignments areas
	Milestone chart showing planned and actual timing of major elements
	Format, Completeness, Readability
Conceptual Design (10 Pts)	Describes mission requirements (problem statement)
	Translate mission requirements into design requirements
	Review solution concepts/configurations considered
	Describe concept weighting and selection process and results
Preliminary Design (20 Pts)	Describe design/analysis methodology
	Document design/sizing trades
	Provide estimates of the aircraft lift, drag, propulsion and stability characteristics
	Provide estimates of the aircraft mission performance
	Provide estimated performance table
	Format, Completeness, Readability
Detailed Design (35 Pts)	Document dimensional parameters of final design
	Document structural characteristics/capabilities of final design
	Document systems and sub-systems selection/integration/architecture
	Document Weight and Balance for final design
	Document flight performance parameters for final design
	Document mission performance for final design
	3-View Drawing package
	Format, Completeness, Readability
Manufacturing (10 Pts)	Document the process selected for major component manufacture
	Manufacturing milestones chart: plan and actual
	Format, Completeness, Readability
Testing (15 Pts)	Test Objectives and schedule
	Fail Safe Scenario, Test and flight check lists
	Describe the test performance of key subsystems
	Compare predictions, explain differences and improvements made
	Describe the test performance of your complete aircraft solution
	Format, Completeness, Readability
Total Report Score: 100 Pts	