Program Phase	F-1	S-IC	S-II	S-IVB	IU	CSM	LEM
<u>Conceptual</u> % Complete % Initiated % Unreported	68 32 0	68 32 0	68 32 0	68 32 0	68 32 0	100 0 0	68 32 0
Design % Complete % Initiated % Unreported	43 57 0	29 71 0	57 29 14	57 43 0	0 71 29	42 29 29	29 57 14
<u>Development</u> % Complete % Initiated % Unreported	32 68 0	0 100 0	0 100 0	32 68 0	36 32 32	32 68 0	0 100 0
GSE and Goss unreported							



2.3.4 <u>Single Point Failure Analysis</u>. Active attention to single point failure analysis has been reported on all equipment areas except GSE, GOSS, and MCC. Most single point failure analyses of Apollo-Saturn 500 series mission hardware have not progressed to the point of identifying the most critical items, with the exception of those presented in Figure 2-8 below.

S-IC	S-IVB
<ol> <li>Fuel Pressurization</li> <li>Fluid Power</li> <li>Fuel Delivery</li> <li>LOX Delivery</li> <li>Retro Rocket</li> <li>LOX Pressurization</li> <li>Control Pressure</li> <li>Engine Purge</li> </ol>	<ol> <li>Selector Switch</li> <li>Attitude Control Engines</li> <li>Helium Fill Modules</li> <li>Electronics Assembly</li> <li>Hydraulic Pump</li> <li>Auxiliary Propulsion Engine</li> <li>Electrical Distribution Cable</li> <li>Sequencer</li> <li>Separator</li> </ol>

Figure 2-8. Most Critical Items Apollo-Saturn Manned Lunar Landing Mission