

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: DROGUE CHUTE

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

ASSY P/N: SK1102436087

SUBSYSTEM: PERSONAL PARACHUTE ASSY.

PAGE 19 OF 79

FMEA		NAME, QTY & DRAWING REF DESIGNATION	CRITY	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTANCE
REF	REV					
2.1.2		SUSPENSION LINES, (12) SK1102436087	1/1	2.1.2 Mode: Line entanglement Cause: • snag on crewmember or PPA during deployment	Possible nondeployment if lines do not un snag	<p>1. DESIGN FEATURES TO MINIMIZE FAILURE MODES</p> <p>a. A controlled deployment of the drogue chute, line first, with a free bag enveloping the drogue during the pilot chute deployment of the drogue, provides line first deployment before the drogue chute canopy opening.</p> <p>2. TEST OR ANALYSIS TO DETECT FAILURE MODE</p> <p>a. <u>Acceptance Test.</u></p> <p>(1) Certification tests will verify the PPA design.</p> <p>b. <u>Certification Test.</u></p> <p>(1) Four dummy drops at 110 knots, 2 at 10,000 feet, 2 at 25,000 feet.</p> <p>(2) Four live water drop jumps</p> <p>(3) One 300 knot wind blast test</p> <p>(4) Four dummy drops at 225 knots, 2 at 10,000 feet, 2 at 25,000 feet.</p> <p>(5) Eight live jumps at 110 knots, 4 at 10,000 feet, 4 at 6,000 feet.</p> <p>(6) Four live jumps at 170 knots, 15,000 feet.</p> <p>(7) Four live jumps at 185 knots, 20,000 feet</p> <p>(8) Four live jumps at 200 knots, 25,000 feet.</p> <p>c. <u>Turnaround Test.</u> (In accordance with PIA 23028)</p> <p>The PPA will be unpacked, inspected, and repacked prior to each flight</p>

PREPARED BY: R. L. ALLISON, M. HERR

SUPERSEDING DATE: 1012-

BY: J. O. SCHLOSSER

DATE: 8/7/89

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: DROGUE CHUTE

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

ASSY P/N: SK1102436007

SUBSYSTEM: PERSONAL PARACHUTE ASSY.

PAGE 20 OF 79

FMEA		NAME, QTY & DRAWING REF DESIGNATION	CRIT'Y	FAILURE MODE AND CAUSE	FAILURE EFFECT ON	RATIONALE FOR ACCEPTANCE
REF	REV				END ITEM	
2.1.2		SUSPENSION LINES, (12) SK1102436007	1/1	2.1.2 Mode: Line entanglement Cause: • snag on crewmember or PPA during deployment	Possible nondeployment if lines do not un snag	<p>3. INSPECTION</p> <ul style="list-style-type: none"> a. Check continuity of the suspension lines. b. Check continuity of the drogue chute. c. Check for equal tension on all suspension lines. d. Verify the chute is under the riser. e. Verify proper stowage of the suspension lines. f. Verify the arming cable is connected to the riser. g. One hundred percent visual inspection of PPA packing. <p><u>Turnaround Inspection:</u> (In accordance with PIA 23020)</p> <ul style="list-style-type: none"> a. The PPA is unpacked, inspected, and repacked prior to each flight. b. Check continuity of the suspension lines. c. Check continuity of the drogue chute d. Check for equal tension on all suspension lines e. Verify the chute is under the riser f. Verify proper stowage of the suspension lines g. Verify the arming cable is connected to the riser.

PREPARED BY: R. L. ALLISON, M. HERR

SUPERSEDING DATE: 10124188

APPROVED BY: J. O. SCHLOSSER

DATE: 8/7/89

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: *DROGUE CHUTE*

SYSTEM: *CREW ESCAPE SYSTEM*

REVISION:

ASSY P/N: *SK1102436007*

SUBSYSTEM: *PERSONAL PARACHUTE ASSY.*

PAGE 21 OF 79

FMEA		NAME, QTY & DRAWING REF DESIGNATION	CRIT'Y	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTANCE
REF	REV					
2.1.2		SUSPENSION LINES, (12) SK1102436007	1/1	2.1.2 Mode: Line entanglement Cause: • snag on crewmember or PPA during deployment	Possible nondeployment if lines do not un snag	h. One hundred percent visual inspection of PPA packing. 4. FAILURE HISTORY None. Nylon suspension lines are used on Department of Defense parachute systems 5. OPERATIONAL USE a. Operational Effect of Failure - Possible loss of life. b. Crew Action - None. c. Crew Training - Not applicable. d. Mission Constraints - None. Mission would be terminated prior to use of this equipment. e. In-flight Checkout - None.

PREPARED BY: *R. L. ALLISON, M. HERR*

SUPERSEDING DATE: 10/1/89

DBY: *J. O. SCHLOSSER*

DATE *8/7/89*