UPPER SKIN PANEL - WING CENTER TANK

CW-102 C-224 GREEN

This is a portion of skin panel, with stringers, and floor beams that extends from RBL 78 to LBL 45 and from SWB1 to S-22. It also has large section of mid spar (CW-801) and a part of SWB2 (CW-702) still attached. The skin panel has multiple smaller fractures and has multiple bends of varying radii in several directions, but is generally bowed up at the inb'd and outb'd ends. The fracture edge at LBL45 has a local curl down. Only a portion of the floor beams at RBL 76,57.5, 34, 11.3, LBL 11.3 and LBL 34 remain attached to the upper surface. Generally, the web of the floor beams has been burnt away. Some lower and upper chord and vertical stiffeners remain. The tension fitting common to SWB1, MS and SWB2 remained attached and intact. The skin splice at the MS is partially failed from RBL 11 to RBL 76. The fwd edge of the panel at SWB2 is bent upwards at a 35 degree angle and there is a fracture in the panel aft of SWB2. Just fwd of SWB2 there is a 3" X 1" vertical puncture in the skin.

The majority of the stringer at S-22 remains attached. The stringer at SWB2 remains partially attached. Only a portion of the skin flange of the stringer remains for S-15, S-18 and S-19. The MS remained attached from LBL 20 to RBL 18, and only the skin flange of the MS stringer remained attached to the right. A large portion of S-12 and S-13 remained partially attached. The vent stringer at S-10/11 remained partially intact from LBL 35 to RBL 75 but is partially detached from the panel and has fractures thru the fwd web flange of the stringer to the right of RBL 34. The stringer at S-9 is not attached. The tension fitting on the lower side of the skin at SWB1 is the only portion of SWB1 that remained attached.

At LBL 30 just aft of the MS there is a semi-circular 6" X 8" area of mid thickness spalling(delamination) on the skin on the lower side that is bent down approx 4" from the inner surface of the panel. It remains attached on the inb'd edge.

Small metal particles were found imbedded in the sealant in the undersurface of this panel. See attached diagram and description in this section for its locations.

There is evidence of heavy fire damage. See Fire and Explosion

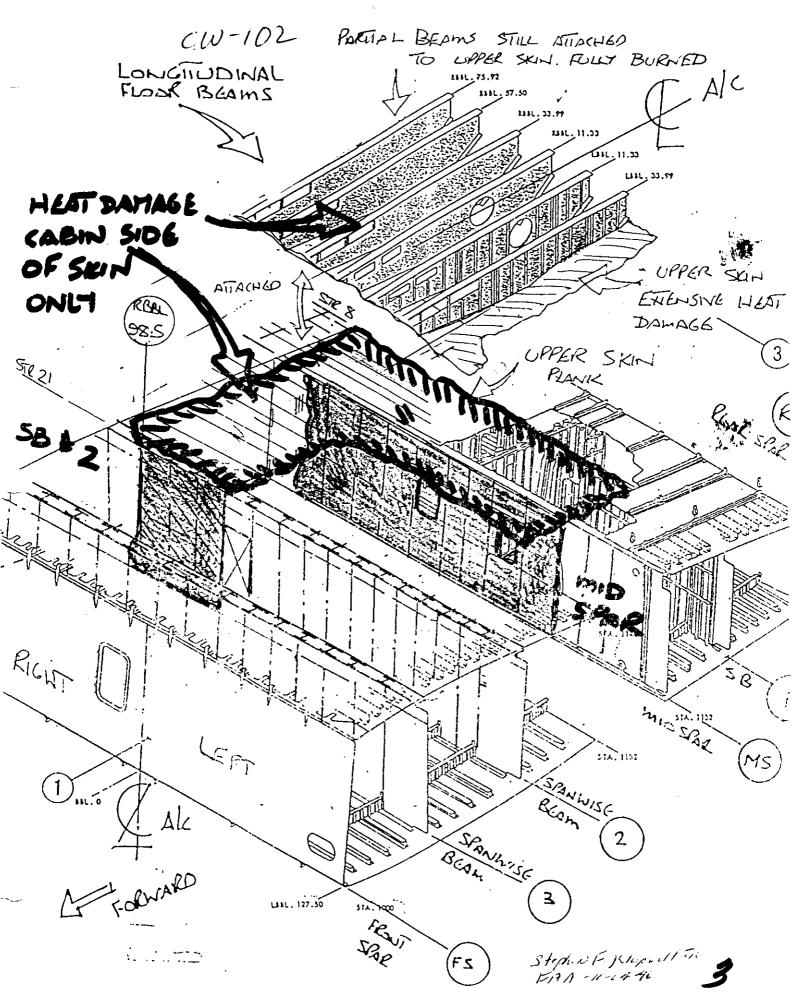
Group notes for further documentation.

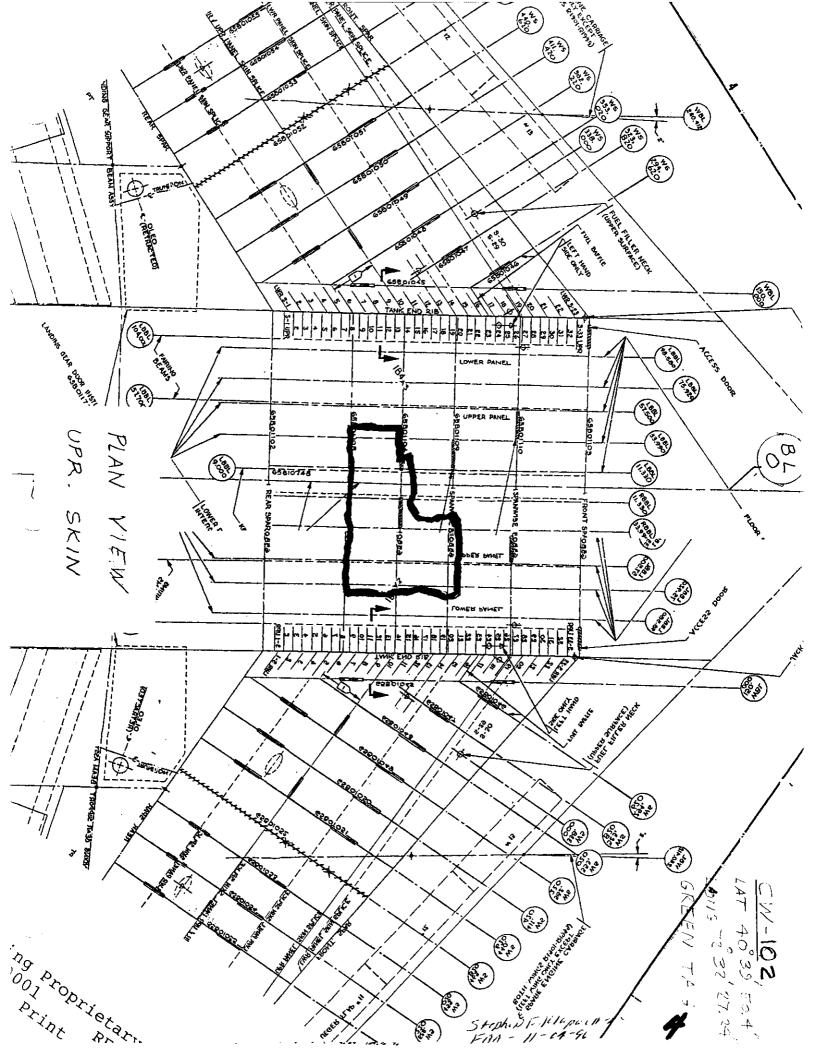
Stephen F. Klapac H 52 FAN 12-05-96 K. Sinlitta TAM 12-05-96

War Slevent 12/5/a4 BOEING Staple 12-6-96 TWA

SO GREEN 12-6-96 ALPA

SECTION 11



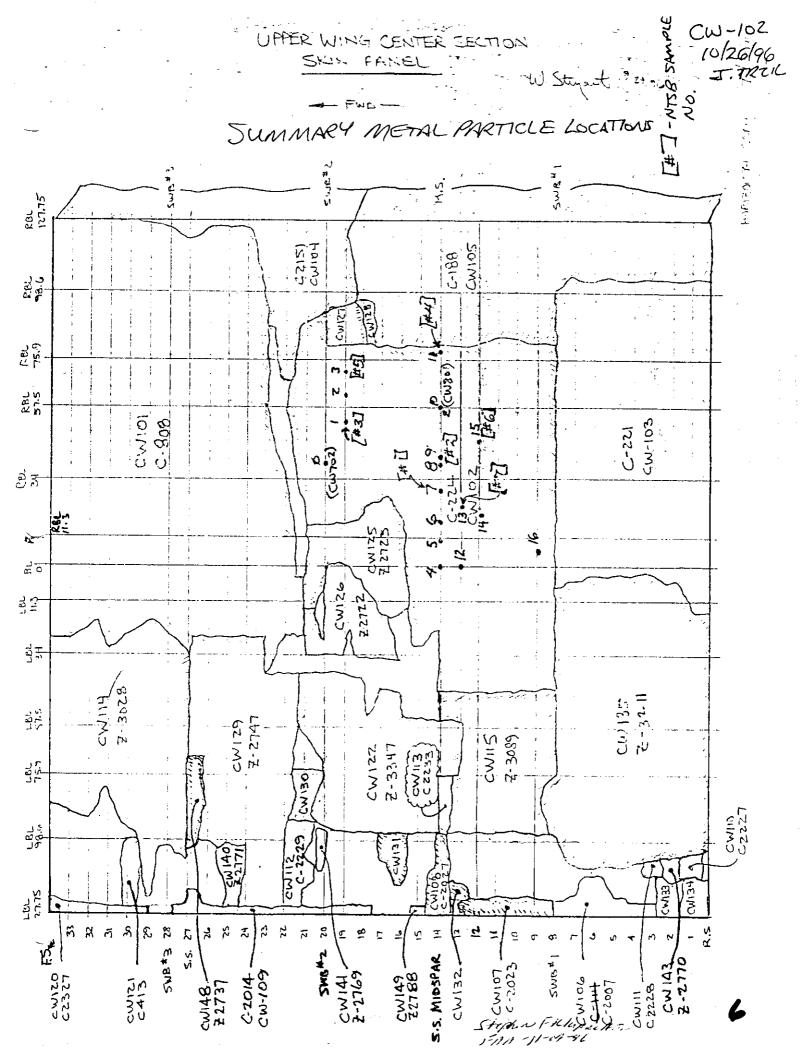


METAL PARTICLE LOCATIONS CW-102 LPARTICLES ADHGENG TO SGALANT 10/26/96 IN MOST CASES] J. TREIL \$ - 5WBZ @ RBL 38 FRAGMENT TRAPPED IN CRACK [CW-702] 1- STER 5-19 AFT OF SUBZ @ RBL 55 (NTSB # 37 X STGR 5-19 @ RBL 60 3mm x 3mm 3- STER 5-19 @ RBL 70 TNTSB # 57# 4- MIDSPAR & ATTAGU 5 - MIDSPAR @ RBL 8.94 SHEARTIE 6- MIDSPAR @ RBL 17.27 SHEAR TIE 7- MIDSPAR @ RBL 31-32 [NTSB # 17 WPERCHORD 8 - MIDSPAR @ RBL 36 UPPERCHORD 9 - MIDSPAR @ RBL 37 WPER CHORD [NTSB #2]* 10 - MIDSPAR VERT. FLANGE @ RBL 58 TRAPPED FRAGMENT IN CASK 11 - MIDSPAR @ RBL 79 WPPERCHORD [NTSB#4]* 12 - STGR 13 @ RBL 1, 1.5, AND 3 SHEAR TIE 13 - STGR 13 @ RBL 22/23 [NTSB#77 * 14 - CWIOZ @ RBL 18 AFT OF STER 12 ABOUT 2.25 NICHE 15 - STER 12 @ RBL 41/42 [NTSB # 67*

FOR ANALYSIS

16- 576R 9 @ RBL 6/7

Stephen F. Klapac Ho-



CW-10Z 10/26/96 W Stuart 20 J. TRZ1!

SUMMEYVIEW DOWN ON LOCATION OF SPIKES IN CUT

