

SPANWISE BEAM # 3

CW-602

A-210

RED

This section extends from RBL 49.60 to RBL 25.26 and includes half of the manufacturing access door. The panel includes three stiffeners plus one partial stiffener. The forward face of SWB3 is the aft wall of the dry bay area of the center tank. All the rivet heads are coated with black sealant. The rivet pitch is 1.5".

Only the stiffener at RBL 41.77 remained intact but separated from the upper shear tie. The remaining stiffeners fractured 3 to ~~12"~~ 20" below the upper skin. The stiffener at RBL 33.97 separated at approximately 6" from the upper skin, and the base of the shear tie and the stiffener web is fractured at <sup>70.2%</sup> 45 degrees. All the shear ties remained attached to the lower surface of the stiffeners and exhibit no bending. One bolt remained attached to the shear tie horizontal flange which attaches with the lower skin and exhibits forward bending. The remaining bolts on the shear tie horizontal flange were missing and the bolt holes are generally elongated in a fwd-aft direction. The lower chord is missing and the bolts that attached the lower chord sheared near RBL 33.97. The web on the upper end between the stiffeners is torn and bent aft.

Detail documentation of the shear tie and bolt hole elongation is documented in the shear tie study notes.

There is ~~no~~ evidence of <sup>SOOTING</sup> ~~any fire damage~~ to this section of the beam. There is no evidence of any pre-existing cracking or corrosion on this section of the beam. REF. FILE FOR DETAIL.

Al Kerney 10/21/96

BOEING  
Tom Tudino  
FAA 10-29-96

SD GREEN 10-29-96

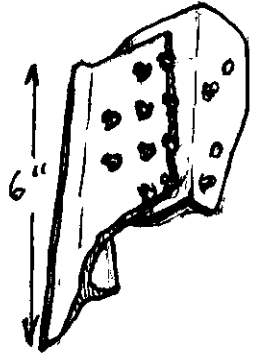
ALPA

J. M. P. 11-26-96 TWA

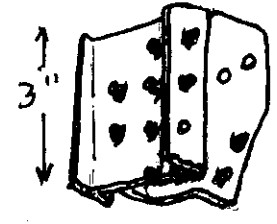
C. F. H. 11-27-96 IAM

Portions of Spanwise Beam No. 3  
Stiffeners still attached to Upper Skin  
(skin extends from RHS SOB to  $\approx$  LBL 30)

Note: No stiffener attachments remain between longitudinal floorbeam locations.

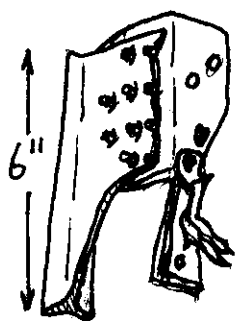


RBL 45

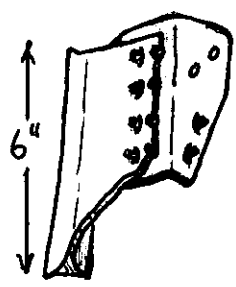


RBL 75

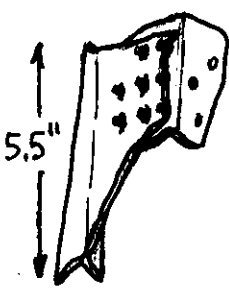
ALL PART OF UPPER SKIN  
GREEN TAG C-80E



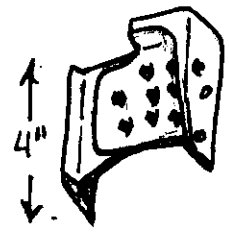
RBL 57



RBL 33



RBL 11



LBL 11

S. Christensen  
8/22/96