

DOCKET NO. **SA- 516**

EXHIBIT NO. **18**

**NATIONAL TRANSPORTATION SAFETY BOARD  
WASHINGTON, D.C**

**WRECKAGE DISTRIBUTION DATABASE  
FOR  
B-747 CWT EXPLOSION TEST AT BRUNTINGHORPE,  
UK**

(20 Pages)

Log #	Component	Description	STA	Paces	Cargo	Tank	Main	Left	Center	Right
1	?	Engine water access panel 2" x 2"	970	10				X		
2	SWB3	LBL charge area	970	10				X		
3	RS	Charge area	970	10				X		
4	SWB3	Piece	970	10				X		
5	?	Seat track	970	10				X		
6	?	Seat track	970	10				X		
7	SWB	Stiffener	970	10				X		
8	?	Ram air inlet duct	970	10				X		
9	SWB3	Piece 6" x 6"	970	10				X		
10	SWB3	Piece 8" x 10"	970	10				X		
11	UP	Logitudinal floor beam lwr chord	975	10				X		
12	SWB	Stiffener	975	10				X		
13	SWB	Stiffener 24"	975	9.5				X		
14	FS	69B10287-904 Stiffener	975	9.5				X		
15	UP	Seat leg 6"	975	9.5				X		
16	UP	Seat track 6"	975	9.5				X		
17	SWB	Stiffener 12"	975	9.5				X		
18	SWB3	Stiffener	740	3						X
19		Not used								
20	Fuselage	Not used								
20		Fuselage piece	975	9.5				X		
21	SWB	Piece 65B0781028	955	7				X		
22	SWB3	Small web piece	955	7				X		
23	SWB3	Small web piece	955	7						
24	SWB3	Web and Chord 18" x 4"	955	7					X	
25	SWB3	Small web piece	955	7				X		
26	SWB3	Small web piece	955	7				X		
27	SWB3	Small web piece	955	7				X		
28	SWB	Intercostal	955	7				X		
29	SWB	Stiffener	955	7				X		
30	SWB	Web	955	7				X		
31	SWB	Stiffener and end fitting 11"	955	6.5				X		
32	SWB3	Piece	955	6.5				X		
33	?	Big section of fairing	1040	7				X		

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34	SWB3	Web	960	6	X	X
35	SWB3	Web	960	6	X	X
36	SWB3	Web	960	6	X	X
37	SWB3	Web	960	6	X	X
38	UP	Seat leg 6"	960	6	X	X
39	SWB3	Piece	965	9.5	X	X
40	SWB	Stringer	970	12	X	X
41	SWB3	Piece	810	7	X	X
42	SWB2	Stiffener 10" long & small web	880	15	X	X
43	LS	Airconditioning duct	960	12	X	X
44	SWB3	Piece	800	5	X	X
45	SWB3	Piece	800	5	X	X
46	SWB2	Web 12"x 6"	660	6	X	X
47	SWB3	Piece	650	5.5	X	X
48	SWB3	Piece	735	5	X	X
49	SWB3	Piece	735	5	X	X
50	Fuslage	STA 1040 frame piece	755	5	X	X
51	RS	Big section	1100	8	X	X
52	SWB	Chord 22" long fnd in grass front & left of apl	130	8	X	X
53	SWB	Stiffener 14" long, fnd in grass	500	6	X	X
54	SWB3	Piece	580	2	X	X
55	SWB3	Piece	580	2	X	X
56	SWB3	Piece	580	2	X	X
57	SWB2	Web 5" x 2"	560	8	X	X
58	SWB3	Piece	1040	21	X	X
59	SWB2	Stiffener & web	1040	21	X	X
60	SWB3	Web 3" x 3"	1040	21	X	X
61	SWB3	Piece	970	2	X	X
62	SWB3	Piece	1000	1	X	X
63	LS	Keel beam section	995	1	X	X
64	LS	Keel beam section	1000	1	X	X
65	RS	?	?	?	X	X
66	SWB3	Piece	600	4	X	X
67	SWB3	Piece	570	3	X	X
68	SWB3	Piece	570	3	X	X

69	SWB3	Stringer	570	6				x
70	SWB3	Web 2" x 2"	980	3				x
71	SWB3	Small pieces	980	3				x
72	SWB3	Small pieces	980	3				x
73	SWB3	Web 3" x 2"	990	3				x
74	SWB3	Piece	1070	7		x		
75	SWB3	Piece	1070	7		x		
76	SWB3	Piece	1241	20		x		
77	SWB3	Piece	1490	10		x		
78	SWB3	Piece	1460	10		x		
79	SWB3	Piece	1460	10		x		
80	SWB3	Piece	1460	8		x		
81	SWB3	Piece	1620	10		x		
82	SWB3	Piece	1800	14		x		
83	UP	Skin panel 20" x 18"	1660	4				x
84	SWB3	Web	1060		x			
85	UP	Seat track 12"	1960	5.5		x		
86	SWB1	Piece 6"	1640	1		x		
87	SWB	Piece of access door	1920	9		x		
88	SWB3	Piece	800	16				x
89	UP	Piece of upper skin	1000	48				x
90	UP	Piece of upper skin	1000	57				x
91	UP	Seat track 20"	1000	57				x
92	Fuselage	Stringer	1040	44				x
93		Not used						
94		Not used						
95		Not used						
96		Not used						
97		Not used						
98		Not used						
99		Not used						
100		Not used						
101	FS	1' wide	560					x
102	FS	3' wide	645				x	
103	FS	18" wide	840					x

104	SWB2	10" X 14"	1100					X													X	
105	SWB2	10 feet across	1097					X														X
106	SWB2	Bottom piece 14" wide	1080					X														X
107	SWB2	Stiffener & web	1080					X														X
108	SWB2	42" upper chord with 18" of web	1120					X														X
109	SWB2	Access door	1020					X														X
110	SWB2	Web 8" x 8"	1080					X														X
111	SWB2	Web 18" x 6"	920				X															
112	SWB2	Web 30" x 14"	1120					X														
113	SWB2	Web 6" x 6"	860				X															
114	SWB2	Stiffener, web and upper chord	1100					X														X
115	SWB2	Stiffener	1120					X														
116	SWB2	Web	1080					X														
117	SWB2	Web 6" x 5"	1100				X															
118	SWB2	Web 18" x 12"	920				X															
119	SWB2	Web 6" x 4"	1060				X															X
120	SWB2	Web & chord 12" x 6"	1100					X														
121	SWB2	Web 8" x 7"						X														
122	SWB2?	2 stiffeners	1160					X														X
123	SWB2	Web 8" x 3"	620			X																X
124	SWB2	Web 30" x 18"	900			X																X
125	SWB2	Web 24" x 18"	940			X																X
126	SWB2	Chord with web 4'	1200					X														
127	MS	Upper chord & web 3" x 2"	1160					X														
128	MS	Chord & web 30" x 10"	1160					X														
129	MS	Chord & web 10" x 10"	1160					X														
130	SWB1	Web 18" x 9"	1240					X														X
131	SWB1	Web 24" x 14"	1350					X														X
132	SWB1	Tree stiffeners	1175					X														X
133	SWB1	Stiffener piece 10"	1200					X														X
134	SWB1	Web 18" x 7"	1060					X														
135	SWB1	Web 6" x 3"	1220					X														
136	SWB1	Web 30" x 14"	1220					X														X
137	SWB1	Web 12" x 10"	1220					X														X
138	SWB1	Web 14" x 12"	1200					X														X



174	SWB3	Web 2" x 3"	560	x	x	x
175	SWB3	Web 4" x 4"	970	x	x	x
176	SWB3	Web 4" x 3"	830	x	x	x
177	SWB3	Web 4" x 3"	980	x	x	x
178	SWB3	Web 2" x 3"	770	x	x	x
179	SWB3	Web 1" x 1"	940	x	x	x
180	SWB3	Web 2" x 1"	840	x	x	x
181	SWB3	Web 1" x 1"	750	x	x	x
182	SWB3	Web 1" x 1"	800	x	x	x
183	SWB3	Web 1" x 3"	850	x	x	x
184	SWB3	Web 4" x 3"	980	x	x	x
185	SWB3	Web 5" x 1"	890	x	x	x
186	SWB3	Web 5" x 2"	970	x	x	x
187	SWB3	Web 4" x 2"	950	x	x	x
188	SWB3	Web 6" x 3"	970	x	x	x
189	SWB3	Web 1" x 1"	980	x	x	x
190	SWB3	Web 4" x 3"	750	x	x	x
191	SWB3	Web 9" x 4"	980	x	x	x
192	SWB3	Web 3" x 4"	780	x	x	x
193	SWB3	Web 2" x 2"	770	x	x	x
194	SWB3	Web 4" x 2"	560	x	x	x
195	SWB3	Web 7" x 2" with stiffener	960	x	x	x
196	SWB3	Web 7" x 3"	830	x	x	x
197	SWB3	Web 5" x 4"	970	x	x	x
198	SWB3	Web 5" x 9"	700	x	x	x
199	SWB3	Web 5" x 3"	760	x	x	x
200	SWB3	Web 4" x 3"	900	x	x	x
201	SWB3	Web 3" x 3"	960	x	x	x
202	SWB3	Web 5" x 3"	1000	x	x	x
203	SWB3	Web 5" x 3"	1000	x	x	x
204	SWB3	Web 6" x 4"	850	x	x	x
205	SWB3	Web 3" x 3"	600	x	x	x
206	SWB3	Web 6" x 6"	940	x	x	x
207	SWB3	Web 3" x 3"	720	x	x	x
208	SWB3	Web 3" x 2"	780	x	x	x

209	SWB3	Web 3" x 2"																					X
210	SWB3	Web 3" x 2"																					X
211	SWB3	Web 4" x 4"																					X
212	SWB3	Web 3" x 2"																					X
213	SWB3	Web 2" x 4"																					X
214	SWB3	Web 2" x 2"																					X
215	SWB3	Web 4" x 3"																					X
216	SWB3	Web 3" x 2"																					X
217	SWB3	Web 2" x 3"																					X
218	SWB3	Web 1" x 1"																					X
219	SWB3	Web 4" x 1"																					X
220	SWB3	Web 8" x 5"																					X
221	SWB3	Web 4" x 3"																					X
222	SWB3	Web 5" x 3"																					X
223	SWB3	Stiffener 14" x 4"																					X
224	SWB3	Web 4" x 3"																					X
225	SWB3	Web 3" x 3"																					X
226	SWB3	Web 2" x 2"																					X
227	SWB3	Web 5" x 3"																					X
228	SWB3	Web 3" x 3"																					X
229	SWB3	Web 4" x 4"																					X
230	SWB3	Web 3" x 8"																					X
231	SWB3	Web 3" x 2"																					X
232	SWB3	Web 4" x 3"																					X
233	SWB3	Web 4" x 1"																					X
234	SWB3	Web 4" x 5"																					X
235	SWB3	Web and stiffener 7" x 5"																					X
236	SWB3	Web 3" x 4"																					X
237	SWB3	Web 3" x 3"																					X
238	SWB3	Web 4" x 3"																					X
239	SWB3	Web 2" x 3"																					X
240	SWB3	Web & Stiffener 7" x 3"																					X
241	SWB3	Web & Stiffener 10" x 6"																					X
242	SWB3	Web 4"x 3"																					X
243	SWB3	Web 3" x 2"																					X







314	UP	upper skin vent stringer	1160-							
315	UP	Upper skin LH forward 72" x 128"	1200	X						
316	UP	51" x 29"	1040	X	X					
317	UP	42" x 53"	1140	X	X					
318	UP	72" x 30"	1350		X					
319	UP	30" x 9"	820		X					
320	UP	17" x 64"	1060	X						
321	UP	28" x 9"	1080	X	X					
322	UP	76' x 49"	?							
323	UP	38" x 20"	1000	X						X
324	UP	22" x 14"	1300	X	X					
325	UP		1020	X					X	
326	UP	20" x 7"	1150		X					
327	UP	142" x 53"	?	X						X
328	UP	70" x 20"	1060	X	X					
329	UP	37" x 33"	1080	X						
330	UP	21" x 15"	1100	X	X					
331	UP	30" x 10"	1240	X						
332	UP	67" x 21"	1080	X						
333	UP	21" x 93"	1060	X	X					
334	UP	27" x 14"	1200	X	X					
335	UP	35" x 12"	1160	X						
336	UP	38" x 20"	1120	X						
337	UP	33" x 20"	1200	X	X					
338	UP	6" x 9"	900	X						X
339	UP	38" x 29"	1100	X	X					
340	UP	7" x 16"	1200	X	X					
341	UP	34" x 14"	1100	X	X					
342	UP	50" x 19"	1140	X	X					X
343	UP	28" x 17"	1080	X	X					
344	UP	22" x 14"	?	X						
345	UP	82" x 37"	1240	X						X
346	UP	46" x 11"	1180	X						
347	UP	67" x 13"	1261	X	X					







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453	SWB	Stiffener 4"						X						
454	SWB	Stiffener 3" x 2"						X						
455	SWB	Stiffener 2" X 1"							X					X
456	SWB	Web 3" x 2"						X						
457	SWB	Web 5" x 5"						X						
458	SWB	Floor board with seat track PL169							X					X
459	SWB	Stiffener 60"												X
460	SWB	Stiffener 36"												X
461	SWB	Stiffener 5"						X						
462	SWB	Stiffener 5"						X						
463	SWB3	LH access door 4" x 2"						X						
464	SWB	Stiffener 7"						X			X			
465	SWB3	Access door piece 2" x 2"						X						
466	SWB	Stiffener						X						
467	SWB	Stiffener fitting						X						X
468	SWB	Stiffener 4"						X						
469	SWB	Stiffener 6"							X					
470	SWB	Web 5" x 3"						X						
471	SWB	Stiffener 2" X 1"							X					
472	FS	Water injection bracket 14"						X						
473	SWB	Bracket end 12" 69B11308						X						X
474	FS	Bracketry 69B12988-1						X						
475	FS	Water Injection struct support, plumbing						X						
476	FS	Water Injection intercostal (cut piece)						X						
477	SWB3	Intercostal with strap 10"						X						
478	SWB3	Web 9" x 6"						X						
479	SWB	Stiffener 5" with strap												X
480	SWB	Stiffener 14"							X					
481	SWB	Stiffener 16"												
482	SWB	Stiffener 17" with end fitting						X						X
483	SWB	Stiffener 15"												
484	SWB	Stiffener 15" with end ftg							X					
485	SWB3	Web 6" x 4"												X
486	SWB	Stiffener 65B10683-2, end fitting												X
487	SWB	Intercostal and support 65B10664-2												X

488	SWB	Stiffener at LBL 106 with end fitting	960							X	
489	SWB	Stiffener 2" X 3"	980							X	
490	SWB	Stiffener and end fitting 65B10685-1	860							X	
491	SWB	Stiffener 12"	830							X	
492	SWB	Stiffener 12"	940							X	
493	SWB	Stiffener 11"	980							X	
494	SWB	Intercostal 69B02360-9	660					X			
495	SWB	Web 12" x 7"	860					X			
496	SWB	Stiffener 5" and end fitting	960							X	
497	SWB	Intercostal 69B02360-4	750							X	
498	FS	Water Injection bracket	740					X			
499	SWB	Stiffener 19"	940							X	
500	SWB	Web 5" x 4"	900							X	
501	SWB	Stiffener 4" x 2"	800							X	
502	SWB	Intercostal strap	810							X	
503	SWB	Stiffener 30"	940							X	
504	SWB	Stiffener 30"	960				X				
505	SWB	Stiffener 22"	960				X				
506	SWB	Stiffener 6"	940							X	
507	SWB	Stiffener 6"	960						X		
508	SWB	Stiffener 13"	940							X	
509	SWB	Stiffener 5"	900					X			
510	SWB	Stiffener 12"	980							X	
511	SWB	Web 4" x 1"	560							X	
512	SWB	Stiffener 2" X 3"	900							X	
513	SWB	Stiffener 17"	920				X				
514	SWB	Stiffener 13"	960				X				
515	SWB	Stiffener 14"	820				X				
516	SWB3	Stiffener 28"	900				X				X
517	SWB	Stiffener 24" with strap	940				X				
518	SWB3	Stiffener 36"	920				X				X
519	SWB	Stiffener 24"	940				X				X
520	SWB	Stiffener 30"	760				X		X		
521	SWB	Stiffener 60"	880				X		X		
522	SWB	Stiffener 7" with end fitting	860				X		X		



523	SWB3	Web 7" x 4"	860									X		
524	SWB	Web 4" x 4"	800									X		
525	SWB	Intercostal	820									X		
526	SWB	Stiffener 11"	880									X		
527	SWB	Bracket 65B10298-901	880									X		
528	SWB3	Intercostal and web	650									X		
529	SWB	Stiffener 8"	820									X		
530	SWB3	Web 5" x 4"	760									X		
531	SWB	Stiffener and intercostal	930									X		
532	SWB3	Web 6" x 4"	820									X		
533	SWB	Web 5" x 2"	920									X		
534	SWB	Strap 16"	900									X		
535	SWB	Web 3" x 4"	860									X		
536	SWB	Bracket 6'	810									X		
537	SWB	Web 4" x 2"	880									X		
538	SWB	Web 4" x 2"	870									X		
539	SWB	Stiffener 5"	740									X		
540	SWB3	Web 2" x 2"	860									X		
541	SWB	Stiffener 5"	900									X		
542	SWB	Stiffener and end fitting 69B02356-2	890									X		
543	FS	Water Injection bracket support	460								X			
544	SWB	Stiffener 4"	830								X			
545	SWB	Stiffener 11"	940								X			
546	SWB	Stiffener 2" x 2"	890								X			
547	SWB	Stiffener 2" x 2"	970								X			
548	SWB	Stiffener 3" x 2"	?								X			
549	SWB	Stiffener 3" x 1"	980								X			
550	SWB	Stiffener 1" x 2"	470								X			
551	SWB	Stiffener 1" x 2"	770								X			
552	SWB	Stiffener end fitting	800								X			
553	SWB	Stiffener 4" x 2"	900								X			
554	SWB	Web 4" x 2"	590								X			
555	SWB	Web 4" x 4"	980								X			
556	SWB	Stiffener 3" x 2"	980								X			
557	FS	Stiffener 10"	760								X			

558	SWB3	Web 3" x 3"	880	X					X
559	SWB	Stiffener 4" x 21"	830	X					X
560	SWB	Stiffener 28"	860	X					X
561	SWB	Stiffener and end fitting	880	X					X
562	SWB	Stiffener and end fitting	980	X			X		X
563	SWB	Stiffener 5"	740	X					X
564	SWB	Stiffener 10"	900	X			X		
565	SWB	Stiffener 12"	960	X			X		
566	SWB	Bracket 12"	980	X			X		
567	SWB	Strap 30"	940	X					X
568	SWB	Strap 10"	900	X					X
569	SWB	Web 5" x 3"	610	X				X	
570	SWB	Web 1"x 1"	940	X					X
571	SWB	Web 4"x 2"	850	X					X
572	SWB	Web 5"x 4"	960	X					X
573	SWB	Web 5"x 2"	750	X					X
574	SWB	Stiffener 7"	960	X					X
575	SWB	Stiffener 3" x 2"	950	X					X
576	SWB	Web 2" x 2"	950	X					X
577	SWB	Stiffener 5" x 2"	720	X					X
578	SWB	Stiffener 4" x 2"	850	X					X
579	SWB	Stiffener 11"	550	X				X	
580	SWB	Stiffener 2" X 1"	750	X				X	
581	SWB3	Web 6" x 5"	540	X			X		
582	SWB	Strap 5"	750	X					X
583	SWB	Web 2" x 2"	880	X					X
584	SWB	Stiffener 4" x 2"	950	X					X
585	SWB	Stiffener 5" x 1"	800	X					X
586	SWB	Web 3" x 2"	890	X					X
587	SWB	Stiffener 4"	780	X					X
588	SWB	Stiffener 9"	900	X				X	
589	SWB	Web 3" x 1"	780	X					X
590	SWB2	Web 4" x 1"	770	X					X
591	SWB	Web 1" x 4"	950	X					X
592	SWB	Stiffener 1" x 1"	950	X					X

593	SWB	Stiffener 2" x 1"	940					X
594	SWB	Stiffener 4" x 1"	880					X
595	FS	Water Injection Struct support	950					X
596	SWB	Web 2" x 2"	760					X
597	SWB	Stiffener 2" X 1"	770					X
598	SWB	Stiffener 2" X 1"	890					X
599	SWB	Stiffener 3" X 1"	700		X			
600	SWB	Strap 6"	570		X			
601	SWB	Web 3" x 2"	950					X
602	SWB	Stiffener 5"	950					X
603	SWB	Stiffener 4"	850					X
604	SWB	Structure with sealant	940					X
605	SWB	Web 3" x 2"	980					X
606	SWB	Stiffener 2" x 2"	840					X
607	SWB3	Web 1" x 1"	490					X
608	SWB	Web 1" x 1"	470					X
609	SWB	Web 1" x 1"	470					X
610	UP	Skin 7" x 9"	1300			X		X
611	UP	Skin 7" x 14"	1210			X		X
612	UP	Skin 10" x 6"	?					
613	UP	Skin 3" x 9"	1140			X		X
614	UP	Skin 8" x 4"	?					
615	UP	Skin 11" x 5"	?					
616	UP	Skin 12" x 12"	1150			X		
617	SWB2	Web 6" x 7"	1100					
618	SWB2	Web 5" x 4"	1235			X		X
619	SWB1	Web 14" x 4"	1240			X	X	
620	SWB1	Web 16" x 10"	1180			X	X	
621	SWB1	Web 6" x 8"	1220			X	X	
622	SWB1	Web 3" x 5"	1220			X	X	
623	SWB3	Web 3" x 2"	1220			X	X	
624	SWB1	Web 5" x 7"	1170			X	X	X
625	SWB2	Bracket	1220			X	X	
626	SWB1	Web 6" x 3"	1220			X	X	
627	SWB1	Web 9" x 5"	1180			X		X

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628	SWB1	Web 5" x 7"	1220	x	x	x
629	SWB3	Web 3" x 2"	1200	x	x	x
630	SWB1	Web 1" x 1"	1220	x	x	x

**Note: One pace = 2 feet**