

# C&D Zodiac 787 Work Statements JAMS

Joint Advanced Materials and Structures June 20, 2006



#### C&D Zodiac

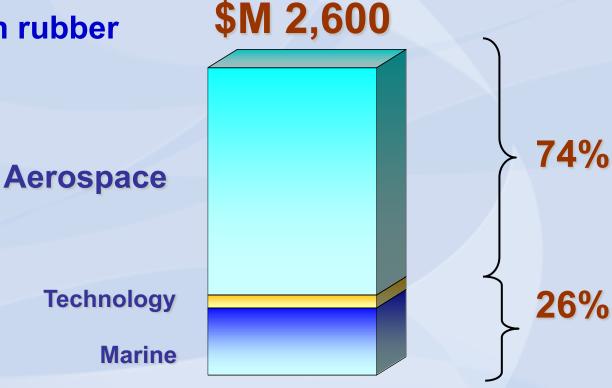
 Mid July 2005 Northwest Composites (NWC) became part of C&D Zodiac





#### C&D Zodiac

Much more than rubber boats



2004/05 Sales (Proforma including C&D)



#### 787 Overview

- The 787 is the most successful aircraft introduction in Boeing history
- Over 350 firm orders
- First parts are due in August, 2006 (Structures)
- First parts are due in January, 2007 (Interiors)
- Boeing rate plan (aircraft per month):
  - **2006 (1)**
  - **2007 (2)**
  - **2008 (4)**
  - **2009 (8)**
  - **2010 (12)**
  - **2011 (16 ???)**



# 787 Interior Highlights

#### Interior features:

- •30% larger window area
- LED mood lighting
- Electronically Dimmable windows
- More comfortable cabin environment
- Dramatic Archway and Domed entry
- Snap together, tool less assembly





# 787 Interior Linings

- •C&D will design and build:
  - Sidewalls
  - Door/Doorway Linings
  - Ceilings
  - Cargo Linings
- •C&D Linings will cover 70% of the visible fuselage interior



#### 787 Sidewalls

- One piece "snap" together assembly
- Supports the Electronically Dimmable Window
- Provides for emergency decompression
- Contributes to Boeing's goal of having the quietest commercial cabin interior





# 787 Door/Doorway Linings

- Protects the door mechanism and emergency escape slide
- Contains features for optional table and service cart stowage
- Similar to 777 door liners
- Quick install feature
- Sleek integrated design



#### 787 Door 2 Entry





#### 787 Ceilings

- •787 is the smallest aircraft to incorporate a forward & aft upper lobe crewrest
- Most complex ceiling package ever put in a commercial aircraft
- 3 different door entry ceilings
- Optional first class configurations





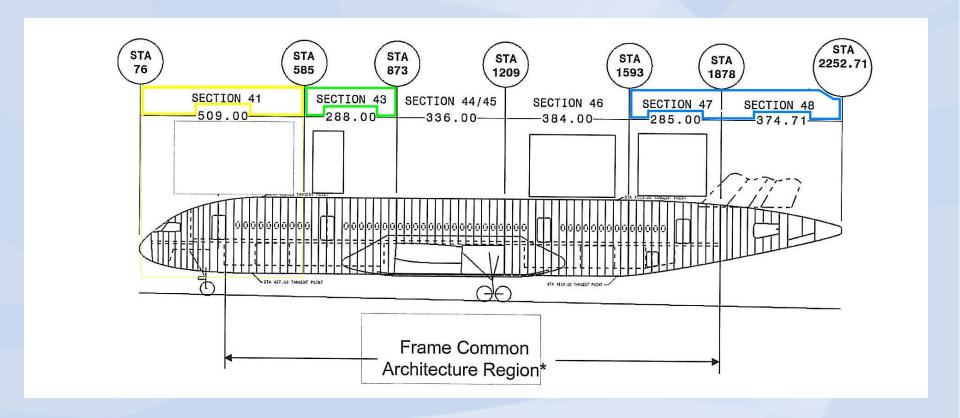


## 787 Cargo Linings

- Two large cargo bays for containers and pallets
- Bulk area for loose baggage
- •Liners must protect against an 1800° F fire, contain smoke, and fire estinguishing Halon

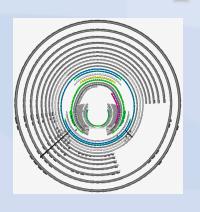


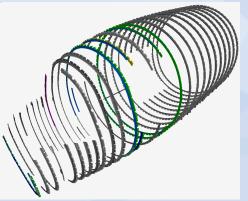


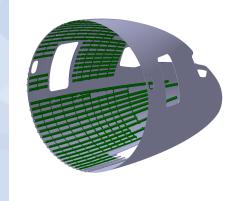




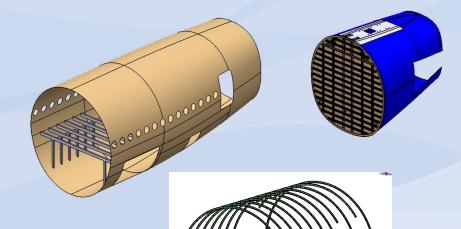
Spirit







Vought



KHI



#### Spirit

- Part Categories
- Frames (qty 103)
- UD tape shear ties / angles / etc (qty 534)
- PW angles (qty 71)

#### Vought

- Part Categories
- Frames (qty 52)
- Potential UD tape miscellaneous (qty 30)

#### KHI

- Part Categories
- Frame (qty 47)







- 787 Parts Experience (861 each)
  - 164 ea Frames
  - 201 ea Shear Ties
  - 47 ea Angles
  - 45 ea Z splices
  - 404 ea Misc. (clips, allowables, brackets etc...)











Frames





Shear Ties





