

PDB Dummy Investigations



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Investigation Overview

- ▶ Dummies received by Humanetics in USA
- ▶ Jumper cables made for ORSP & VRTC
- ▶ Dummies inspected
- ▶ Mini-sled testing
- ▶ OSRP sled testing
- ▶ VRTC sled testing
- ▶ Mini-sled testing repeated
- ▶ Shipped dummies to Germany

Humanetics Inspections

- ▶ Inspected to checklists without disassembling dummy
 - Neck pins pushed part way to side but not completely removed
- ▶ No adjusts made to spine position, damper, etc.
- ▶ No parts replaced

Inspection Findings

▶ Dummy 0006

- Rusty pins 3 locations (not stainless)
- No slotted T3 torsion plate
- Undersize holes (pin check) C3, upper right side
- L2/L3 joint play right side

▶ Dummy 0007

- Rusty pins 5 locations (not stainless)
- Oversize holes (pin check)
 - ▶ C2 upper left
 - ▶ C7 upper right

▶ One (?) had smooth rubber on the delrin back plate

Mini-sled Testing

- ▶ Certification test without head restraint
- ▶ Test with head restraint
- ▶ Without head restraint with arm masses
- ▶ With head restraint with arm masses
- ▶ No back support (low severity)