

GTR7-07-10

Biorid Task List discussions



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PDB Dummy Investigation Project

▶ June 2011 (need Monthly progress reports)

– Humanetics Europe

- ▶ Perform arm testing with head rest test with standard probe
- ▶ Ship PDB Dummies & Seats to Ohio for testing

▶ July 2011

– Humanetics US

- ▶ Review dummies
- ▶ Perform baseline certification tests
- ▶ Perform PDB type sled testing , ORSP, NHTSA,??
 - Pressure map seat back
 - Add accelerometers and angle rate sensors to spine
 - New a volunteer to use their sled
 - Analysis data and develop follow on sled test plan

▶ August 2011

– Humanetics Europe

- ▶ Perform addition sled tests, David H EEVC tests for sled tests
- ▶ PDB would like another group to volunteer to perform tests
- ▶ Can Chrysler run side by side Biorids they have Humanetics will see if they can loan a dummy for Sled tests?

Possible Sled Test Help

- ▶ OSRP-Agnes and Jack will check
- ▶ VRTC-Bruce, may have time the end of July
- ▶ EEVC –David H will be point of contact for Europe Sled testing
- ▶ Chrysler-Brian may be able to test two dummies in seats (Humanetics needs to check to see if we can provide a dummy)
- ▶ BAST?
- ▶ OSU seat?

Humanetics Germany Task List

- ▶ Arm testing
 - Can not find what is creating the random neck force issue
 - Has tried, many set up changes but not able to reproduce the random neck load
 - Half arm with camera
 - Large probe testing with half arms installed
- ▶ Certification testing
 - Overlays to compare with Huron tests
- ▶ Instrumentation currently on dummies
 - Connector issues, pig tails???
 - VW Lemo F connectors (Need to send wiring for both dummies to Huron)
 - D Lemo 1B types (May need different insert in crimp tool)
- ▶ Shipping
 - Dummies (Need to get ok from owners or PDB)
 - Seats (PDB will ship)

Humanetics Huron task list

- ▶ Perform certification tests first
- ▶ Complete review of the dummies
- ▶ Make pigtails, Connector work
- ▶ Fixtures
 - Adaptor to move dummy forward
 - Create a seat back similar to PDB seat with load cells, Biosid load cells from Germany are available to use, will send with dummies
- ▶ Create Sled Testing Matrix

Meeting

- ▶ NHTSA, ORSP, PBD Sled testing meeting week later during the week of June 20

OSRP and NHTSA Sled testing

▶ Seats

- mounting,
- Belts
- Can we pressure map seat back?
- NHTSA has a car seat to use, can they also run the PDB seat?
- PDB Seating procedure for the dummy is required

▶ BioRIDs

- Huron will test and review dummies before sled testing
- Use clothing & shoes provided from PDB

▶ Additional Instrumentation Requested

- Accelerometers at standard location
- Every where possible, accelerometers and gyros
- Spine set up tilt sensors, Head, T1, T4, T8, etc...., use RDI mount, mounted on accel cube

▶ Sled pulse

- Run both pulses (SRA 16, ANNEX 9) (NHTSA Pulse?)

▶ Test Matrix

- How many tests (3 of each Type)
- Do we change jackets between the dummies
- Change dummies between seats
- Change heads between dummies
- Change teflon back plates between dummies