



# Vehicle Equipment and Advisory Team

## (VEAT) Meeting

Aeronautics Auditorium

April 21, 2015

10:00 a.m. – 4:00 p.m.

Jimmie Anderson	Mark Bezjian	Terry Black	Terry Bower
Niel Carlson	Richard Collins	Steve DuBois	Steve Hartman
Bubba Hufnagel	Brett Kessel	Dave Kortman	Aaron Loehr
Lisa Lubahn	Lynn McLean	David Miles	Amy Nobach
Ryan Novotny	Michael Reece	Jim Sherwood	Jeff Turner
Brian S. Tyler	Paul Vajcner		

### Opening Remarks & Introductions

Jeff Turner welcomed the team and introduced himself, Amy Nobach, and Lisa Lubahn.

### Vedor Presentations

#### **Mobility Works – Harry Matthews**

Harry Matthews demonstrated a Ford Transit van with Smart Floor option.

- Possible issue with L track longevity.
- Do L tracks have to meet FMVSS?
- How often do agencies have to switch seating configurations?
  - o Which agencies have drivers capable of making these types of changes?
  - o What is the liability if a diver doesn't get the seat in correctly?

#### **Mobility Transportation – Dave Brown**

Ave Brown demonstrated a Ford Transit van with a rear lift.

Double bus type door would work well. Seats fixed also work well.

#### **AbiliTrax – Steve Bolin**

Steve Bolin demonstrated a Ford Transit van with AbiliTrax Floor option.

Can be replaced easily. Team thought it looked 'easy' to move seats in and out. Team had the same concerns as the Smart Floor:

- How often do agencies have to switch seating configurations?
  - o Which agencies have drivers capable of making these types of changes?
  - o What is the liability if a diver doesn't get the seat in correctly?

**Action Items:** Ask Steve about sliding door. Is there another option?

#### **Gerfloor – Perry DeGroot**

Questions:

- What's the procedure used to connect adjoining flooring pieces together? A) Heat weld together V-notch, V-cut, weld together. Trim with gap/spacer, wait till cool.
- Do you provide training? Yes
- What happens if you get a razor cut? Cut the floor to make a rounded edge. Screw hole? Make round, subfloor nice and clean.
- Welds from the manufacturer, does the 12 year warranty cover the flooring? No, falls under the bus manufacturer.

Step corner nosing: 2 colors of PVC nosing. Non-skid step.

- Cost of step flooring: double for the aluminum. PVC step nosing (9 feet) \$30/piece.
- 2) Screws are counter sunk, stainless screw required? No, Gerflor supplies the proper adhesive.
- Flooring doesn't have as much 'grit'.
- Should have brought a piece welded together to demonstrate.
- Pure PVC will become very brittle.
- Prevent shrinkage.
- Cost vs ALTRO

**Conclusion:** Need to see welded together. Possibly to retro-fit any bus. Not a new problem. We are happy with the current product.

### **Mobile Climate Control – Michael Bodenbach**

- No questions after presentation.

**Conclusion:** Add MCC to the spec.

**Action Items:** Jeff Turner will inform Mike Bodenbach that the team will be adding MCC as an 'approved' equal by May1, 2015

### **Accessible Passenger Vehicle (APV) RFP Update**

Jeff reviewed the timeline for APV RFP. Department of Technology, Management and Budget (DTMB) original date anticipated for the RFP to be posted was 4/24/15. The documents are still being reviewed by DTMB and once the review is complete they will post to Buy4Michigan, hopefully in the next two weeks. Proposed review and award recommendation anticipated date will be 7/1/15 to be submitted to the 7/21/15 or 8/4/15 Ad Board for review and approval.

### **Medium Bus Specification Review**

The following are VEAT Team changes and comments to the Medium Bus specifications:

- Page 7 – Quality of Workmanship: document problems or issues, cc: Jeff Turner, send to dealer. Refuse to accept vehicle if there are problems. Require manufacturer to take a picture of the wiring? Picture of your bus? The pilot bus?
- Page 8 – #16 vs #18 gage steel. Not for the Medium Bus, it's for the Small Bus.
- Page 10 – Fiberglass (intent of composite body –eliminate rust/flexing). –'Paul V. –LET Monroe', look at steel with fiberglass enclosure. Complete steel cage with fiberglass enclosure. Exterior skirt – issue for Marquette. Possibly 'reinforcement along the bottom edge for added strength'. Seems at doors are required to be resealed yearly. Jeff will research adding steel reinforcements to roof and side walls to limit deflection.
- Page 12-Passenger Door (F-550 year 2014) Battery operated light needs to go through a master switch. –something to look for during pilot builds. Electronic control module (acts as a device to open and close door). Issue – damaged by water. Could it be relocated or should it be in a weather tight enclosure? Door fasteners shall not be into wood frame, but shall be anchored through metal.
- Page 14 – Interior (Updated minimum ceiling height to meet industry standard (from 74" to 76")), storage area – hinged from top – must has a clip/spring to hold the door in open position.

- Page 14-Flooring (increase flooring support under lift area). Add ‘stainless steel’ plate instead of aluminum on bullet #6.
- Page 15/16-Emergency Exit. –Remove ‘upper door window height shall match top of buses – remove! The emergency rear exit window shall have the latches on the sides (NOT THE BOTTOM).
- Page 17 –Fare box (Replace with Diamond as the Suggested Source. ‘When passenger door shuts, the fare box light must shut off’.
- Page 17 – Bumpers (Remove SMI as a suggested source). Possibility to get a bumper that doesn’t protrude past the side of the bus.
- Page 17 – Mud Flaps and Splash Guard. Add language ‘ridged’ anti sail mud flap. Remove “T” bracket on rear mud flap only. Front mud flap shall be rubber. Add – use adhesive in addition to fasteners for fender splash guards.
- Page 19 – Exterior Mirror (change the spec to stainless steel). Delete ‘die-cast, anodized, or aluminum’.
- Page 19 – Driver’s Seats – Class 1 (6 way Ford Powered Seat). Add electric seat.
- Page 20 – 2. Passenger Seats – b. - Make hand grab handle all yellow.
- Page 21 – Delete all references to C.E. White LE Series. Child restraint seat capable seat shall be first non-folding seat on curb side of bus.
- Page 25 – Interior Lighting – Must have free access to the plug to remove light.
- Page 25 – Exterior Lighting – Must have free access to the plug to remove light and hole large enough for plug access.
- Page 26 & 27 – Add MCC. “Premium Heating Hose” change to Silicone hose with approved clamps, get price comparison.
- Page 28 – Add – FRP color must match chassis OEM paint.
- Page 28 – Add – proper surface prep to stainless steel prior to paint application.
- Page 29 – Fiberglass corner shall be sprayed with insulation prior to electrical assembly.
- Page 30-Add Ricon lift under section 3. And delete Maxon.
- **Page 32 – Talk with Mike Laidlaw regarding new product and updating specs.**
- Page 33 – Storage pouch – add - free of sharp edges.
- End on Page 33
- Start up with Chassis Specification at next meeting

### **Closing Comments/next VEAT Date and Location**

The next VEAT meeting is scheduled for the Aeronautics Commission Conference Room upstairs at the MDOT Aeronautics Building on 5/11/15 at 10:00 a.m.