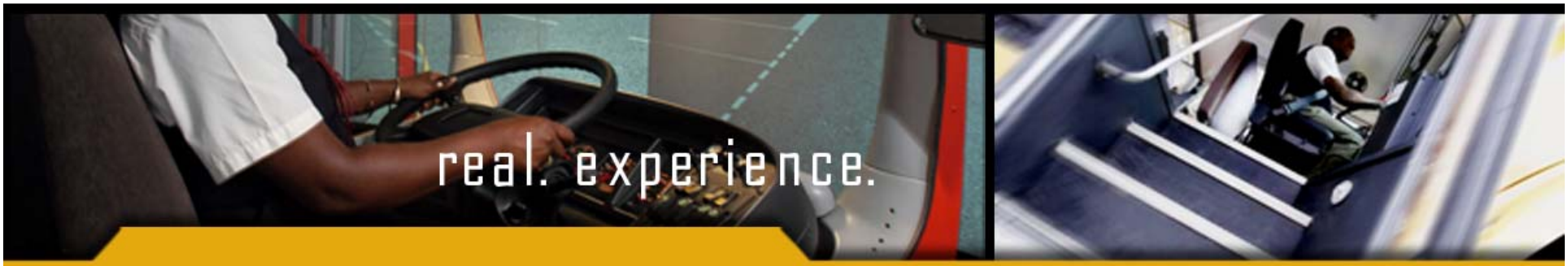
Presentation to:

Virginia Transit Association
Annual Conference, May 31, 2013
Hilton Hotel-Old Town
Alexandria, VA



AN AROTECH COMPANY
TRAINING & SIMULATION DIVISION

USE OF "SIMULATION" TECHNOLOGY IN SAFETY & TRAINING

The use of "Simulation" technology in safety & training "supplements" the training process so training can be tailored to:

- Deliver operational excellence
- Meet specific safety performance objectives
- Qualify only those students who have demonstrated the ability to operate according to the standards of the hiring transit property

TOTAL TRAINING SOLUTIONS PACKAGE

Set the table for implementing & reaping the benefits of new technologies by first having in place:

- Standardized Criterion Based Curriculum

(to predict the safety performance of student bus operators after training)

- An Effective "Train the Trainer" Program

(to ensure that the depot "route familiarization" operators are knowledgeable regarding what the student was taught at the training center)

- Corrective Action/Refresher Solutions

(fixing the problem)

- Post Training Programs

("hire to retire" philosophy)

TRANSIT SIMULATORS

MB-2000 Series

MB-1500 Series

WHERE DO WE START WITH TECHNOLGY IMPLEMENTATION?

- Human Technological Factor begins with a thoroughly trained new hire

  (training to ensure only the “cream of the crop" advance to passenger service)

- Supplying them with user friendly technological tools

(selecting buses, mirrors, cameras, windshield design, fareboxes etc…that do not cause distractions or blockages for the operator)

the operator requires sight lines that increase visibility

- Compiling information from results that were revealed in a pilot program

  (can incorrect or too much technology be the problem instead of the cure?)

USE OF “SIMULATION” TECHNOLOGY IN SAFETY & TRAINING

- Basic Skill Development for New Trainees

  (supplementing training bus activities)

- Annual/Bi-Annual Refresher

  (targeting and reducing #1 collision type)

- Corrective Actions

  (“fix it” tool after a bad behavior has been identified by an on-board camera)

- Collision Recreation (Scenario Toolbox)

  (recreating and saving high risk incidents for future use)

EXAMPLES OF USING SIMULATION TECHNOLOGY AS A BASIC SKILL DEVELOPMENT TOOL

UTILIZING A PRESCRIPTION BASED SIMULATED “FIX IT” ENVELOPE

C……orrective

A……ction

R……emedies

E……nvelope

Utilizing both live bus / simulation to deal with:

Collisions, Mirror Set up & Utilization, Pedestrian Knockdowns, Curb Jumpers, Abrupt Steering /Braking, Excessive Speed Issues, Following Distance, Failure to “Cover” Right, Clearance Issues, Striking Fixed Objects etc...

USE OF "SIMULATION" TECHNOLOGY IN SAFETY & TRAINING

Summary:
Simulation Enhances Training!

- ✓ It does so by providing a ***"low risk"*** environmental setting for those "**high risk"** collisions. Allowing one to see the results of an incorrect decision is probably the most enhancing element of simulator training. Providing the student the opportunity to repeat a particular skill set until mastery sets in makes all the difference.

- ✓ by enhancing the instructors capabilities and exposing training inconsistencies among the training staff that compromise "standardization." *Poor foundation = poor training program.*

- ✓ by evaluating the judgment of the participant. (Was the correct judgment utilized by the participant to ***starve off disaster.)***

POLICE DEPARTMENT
CITY OF NEW YORK
FIRE DEPARTMENT
CITY OF NEW YORK
POLICE
Remember
the
Heroes
September 11, 2001

KEEP IN TOUCH

CONTACT INFO:

- lgmaiello@faac.com for simulator concerns/training.

- louies.bus_talk@yahoo.com for training needs.

  - Curriculum Review and Recommendations
  - 8hr:45 min – 12hr:30 min New Bus Operator Training Program
  - Train the Trainer Class
  - Public Speaker, Safety Awards Dinners etc…
  - Expert Witness Reviews (Buses)
  - Collision Reduction Measures

- **Phone: (845) 705-0056**