

# BSC

Binghamton Simulator Co

The Missing Piece of Aircrew Training





AVET in assembly



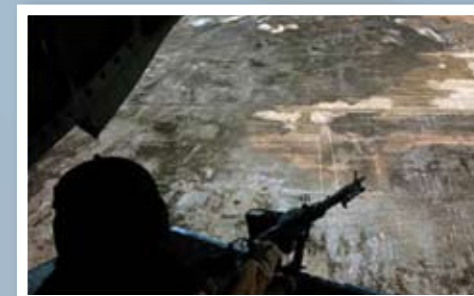
View of full size shell of the aircrew area.



Similar enclosure on a 6 DoF motion system



PAVET at Norfolk, NAS



## Aircrew Virtual Environment Trainer

## Train Like You Will Fight



Years ago, pilot training took a huge step forward when simulation was integrated into their training syllabus. The ability to train 24/7 in any weather, on any mission, was significant in reducing training costs and improving the proficiency of pilots. The extra benefit of being able to train for most emergency procedures increased the safety and mission success probabilities. Today, simulation training plays a pivotal role in the development of pilots, both commercial and military. Their proficiency levels have never been higher and their ability to cope with emergencies is legend.

Now, the US Navy has taken the lead in developing the Aircrew Virtual Environment Trainer (AVET), a simulator that is being integrated into the Navy training syllabus for helicopter aircrew members. For the first time, these mission-critical aircrew members will have the ability to train 24/7 in an environment that is very close to the real thing. For the first time, aerial gunnery, hoist operation, vertical replenishment, confined area landings, shipboard landings, search and rescue, and many other critical skills can be trained in the safety and versatility of extremely high-tech simulation. Any weather, any time of the day or night, in

Night Vision Goggle (NVG) mode, any place in the world...accurate and realistic training.

“Green” is a worldwide concept and is integral to the AVET trainer. The use of an AVET trainer will reduce harmful exhaust gases from helicopter engines and support equipment as well as the fuel used by this equipment. It also significantly reduces releasing ammunition lead and tracer phosphorous into the environment, and the need for extensive “ranges” to support aerial training.

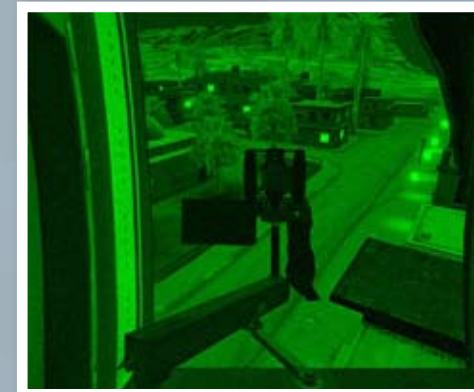
Efficient in reducing costs, the AVET provides a substantial cost savings over current training methods while providing the ability to increase the level and context of the training for increased readiness and proficiency. The transfer of training from the real aircraft to the simulator, in any amount, extends the life of the aircraft, significantly reduces fuel and maintenance costs for training flights, ammunition costs, reduces travel to and from ranges, reduces maintenance costs of the ranges, and provides the flexibility for 24/7 availability for aircrews to train.



AVET Instructor Operator Station

To “Train like you will Fight!” requires high-fidelity visuals to accurately challenge the visual scanning and target acquisition ability of aerial gunners. Accurate depth perception is provided through the use of two visual channels, one for each eye.

The AVET is provided with Helmet Mounted Displays which fit right on the NVG rails on the air-crew personal helmet, allowing aircrews to train with their own equipment, should they so choose.



Helmet Mounted Displays

Top and second photo: An actual M240D for full tactile feel. Third photo: BSC patented Hoist Training Unit with operating cable for full tactical feel. Bottom photo: Gau 21 mock up

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