Training & Simulation Industry Symposium (TSIS)

CAPT Dan Covelli – Commanding Officer

15 June 2022
FORCES DRIVING OUR NAVY
BEND THE CURVE

**READINESS** = Platform + People + Training

**PROFICIENCY** = Readiness + Reps/Sets

**SUPREMACY** = Blue > Red Proficiency

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Training needs to be:

- Higher Quality
- More Accessible (DMT)
- More Frequent

Not just incremental gains, but **greater proficiency relative to competitor**!
AIR WARFARE AND MUCH MORE

+ Naval Aviation

- PROJECTS 52
- FTE WYS 561
- PGM VALUE $1,900M

+ Surface

- PROJECTS 56
- FTE WYS 172
- PGM VALUE $412M

+ Undersea

- PROJECTS 38
- FTE WYS 62
- PGM VALUE $72M

+ Cross Warfare

- PROJECTS 78
- FTE WYS 180
- PGM VALUE $1,538M

+ Ready Relevant Learning

- PROJECTS 7
- FTE WYS 160
- PGM VALUE $160M

+ International

- PROJECTS 42
- FTE WYS 111
- PGM VALUE $1,043M

FY21 OBLIGATIONS: $1,149,072,457
CONTRACT ACTIONS: 1,352

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<th>FY21</th>
<th>Personnel</th>
<th>1,563</th>
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<tr>
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<td>Government Civilian</td>
<td>1,273</td>
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<td></td>
<td>CSS</td>
<td>253</td>
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<td></td>
<td>Military</td>
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All numbers approximate and represent only funds currently committed for NAWCTSD execution.
### NAWCTSD SITES

#### CNAP Devices Contractor ISEs

<table>
<thead>
<tr>
<th>Site</th>
<th>Devices</th>
<th>Contractor</th>
<th>ISEs</th>
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<tbody>
<tr>
<td>North Island</td>
<td>33</td>
<td>105</td>
<td>10</td>
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<tr>
<td>Mugu</td>
<td>12</td>
<td>10</td>
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<tr>
<td>Pendleton</td>
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<td>6</td>
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<td>Miramar</td>
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<td>65</td>
<td>5</td>
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<td>Yuma</td>
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<td>Lemoore</td>
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<tr>
<td>Tinker AFB</td>
<td>16</td>
<td>37</td>
<td>2</td>
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<tr>
<td>Kanehoo Bay</td>
<td>4</td>
<td>5</td>
<td>2</td>
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<tr>
<td>Atsugi</td>
<td>2</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Futenma</td>
<td>3</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Iwakuni</td>
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#### CNAL Devices Contractor ISEs

<table>
<thead>
<tr>
<th>Site</th>
<th>Devices</th>
<th>Contractor</th>
<th>ISEs</th>
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<tbody>
<tr>
<td>Norfolk</td>
<td>36</td>
<td>117</td>
<td>10</td>
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<tr>
<td>Oceana</td>
<td>21</td>
<td>71</td>
<td>3</td>
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<tr>
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<td>27</td>
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<tr>
<td>Quantico</td>
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<tr>
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<tr>
<td>Cherry Point</td>
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<td>57</td>
<td>6</td>
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#### MESSOR Devices Contractor ISEs

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<td>Fallon</td>
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<td>2</td>
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<td>Fort Worth</td>
<td>9</td>
<td>19</td>
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<td>Key West</td>
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<td>2</td>
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<tr>
<td>Lakehurst</td>
<td>3</td>
<td>7</td>
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<tr>
<td>Norfolk</td>
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<td>4</td>
<td>0</td>
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#### International Programs Devices Contractor ISEs

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<th>Region</th>
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<th>ISEs</th>
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<tr>
<td>Denmark</td>
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<td>United Kingdom</td>
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<tr>
<td>Taiwan</td>
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<td>2</td>
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<tr>
<td>Kuwait</td>
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<td>21</td>
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<tr>
<td>Brazil</td>
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<td>2</td>
<td>0</td>
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<tr>
<td>Iraq</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Kingdom of Saudi Arabia</td>
<td>2</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Oman</td>
<td>100</td>
<td>1</td>
<td>0</td>
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### Training Devices: 98% Operational Availability

2920 people supporting 1662 training devices at 169 sites worldwide Generating Fleet Readiness

**NOTE:**
Digital Radio Management System support at 20 Navy sites between NCTE and Ranges, 7 USAF sites, 2 U.S. Army sites

- **CNATRA Devices Contractor ISEs**
  - Kingsville | 13 | 17 | 10
  - Corpus Christi | 34 | 36 | 1
  - Pensacola | 46 | 25 | 5
  - Whiting | 79 | 50 | 3
  - Meridian | 11 | 30 | 2

- **CNATT Devices Contractor ISEs**
  - Pensacola | 26 | 23 | 3
  - Lakehurst | 3 | 14 | 0

- **BUMED Devices Contractor ISEs**
  - Cherry Point | 15 | 3 | 0
  - Norfolk | 22 | 3 | 1
  - Jacksonville | 5 | 2 | 0

- **SURFACE TRAINING SITES Devices Contractor ISEs**
  - Newport, RI | 55 | 31 | 3
  - NB Norfolk | 72 | 63 | 3
  - NB Little Creek | 7 | 0 | 1
  - Mayport | 20 | 29 | 4
  - NB San Diego | 102 | 111 | 7
  - NB Coronado | 7 | 0 | 1
  - Pearl Harbor, HI | 8 | 10 | 1
  - Japan (Yoko and Sasebo) | 2 | 5 | 0
  - Naval Station Everett | 2 | 4 | 1
  - Great Lakes, IL | 19 | 62 | 2
  - Rota | 1 | 0 | 0
  - Bahrain | 0 | 0 | 0
  - Pascagoula/Bath | 2 | 0 | 0

- **SUBMARINE LEARNING CENTER Devices Contractor ISEs**
  - Groton, CT | 50 | 9 | 3
  - Kings Bay, GA | 25 | 8 | 1
  - San Diego, CA | 15 | 6 | 1
  - Bangor, WA | 28 | 8 | 1
  - Pearl Harbor, HI | 32 | 6 | 1
  - Guam | 5 | 0 | 0

- **USMC/CNIC/CNATT Devices Contractor ISEs**
  - Firefighting Training at all USN/USMC bases | 136 | 2 | 0

- **COVE Devices Colleges/Universities**
  - NETC | 109 | 88 |
Aviation Products
Distributed Mission Training (DMT)

DMT/NADTCLANT

+ Qualifications in COVID environment (CVW-7)

+ Large Force Strike Distributed Events in 2021
  + Future increased T&R credit opportunities

+ Development of NAWDC approved Air Wing
  Pre/Post Fallon work up syllabus
Aviation Products
Project Avenger

Background
+ Class 1 at NAS Corpus Christi TW-4 (Aug 20 to Apr 21)

Objectives
+ Produce better, more self-sufficient aviator proficient in dynamic & fluid environments
+ Execute more efficient and effective syllabus
+ Reduce total time to train (TTT)
+ Identify potential off-ramps to follow on syllabi

Results
+ Produced higher quality SNA
+ Lower DOR rate
+ Lower sortie count with comparable flight hours
+ Faster progression to milestones
+ Lower TTT
+ Annual estimated potential cost savings

Sample Data Round 1

<table>
<thead>
<tr>
<th></th>
<th>Flights</th>
<th>HRS</th>
<th>TTT</th>
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<tr>
<td>Traditional</td>
<td>48.6</td>
<td>73.3</td>
<td>28.9</td>
</tr>
<tr>
<td>Avenger</td>
<td>39.0</td>
<td>73.3</td>
<td>26.5</td>
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</table>

Avenger Students Achieved Milestones Faster

[Diagram showing comparison of progress]

Complete
1st Form/Nav
1st Nav/Form
SOLO

Avenger
JPPT

Traditional Classes

Flights

Annual estimated potential cost savings
Surface & Undersea Products

Navigation, Seamanship & Shiphandling Trainer (NSST)
USS CHANCELLORSVILLE - Near miss with a Russian vessel

Training enabled by NAWCTSD responsible for ensuring crew was able to act accordingly to avoid a tragedy.

"I truly believe that one of the reasons we did not collide with the Russians was the training we had in the simulator..... The CO made the choice to go back full, but this was a what if discussion I had with him after an NSST session."
Navigator’s email to CIS instructor, a retired USN CAPT

Big Part of Corrective Actions Identified in USS MCCAIN & USS FITZGERALD Reports
Surface & Undersea Products
Multi-Purpose Reconfigurable Training System (MRTS) 3D®

MRTS 3D® VIRGINIA Caterpillar diesel
- Faster Progression/Completion (MAA A-school)
- Equipment based training vs. MRTS 3D based training cost savings

MRTS family of trainers provides a virtual training environment simulating a variety of tactical systems

“\textit{It makes the training more interactive and relevant to the technology they are using in everyday life.}”
EMALS – MALS Instructor Aviation Boatswain’s Mate (Launching and Recovery) 1st Class J.C. Torres

MRTS 3D Mobile Electric Power Plant (MEPP) trainer vs. legacy trainer retention of startup procedures comparison
- Higher quality Sailor

EMALS Cost Savings
- Equipment based training vs. MRTS 3D based training cost savings
Ready Relevant Learning (RRL) Products

RRL delivered 2 Spirals of modernized Operations Specialist (OS) A-School

- Increased test scores and overall course grades
- Reduction in A-School course failures and setbacks

RRL trained OS’s reported to first Fleet ships

- Reduction in time to qualify as Lookout for OS A-School graduates
**North Star**

**Vision:** To be the **Fleet’s Premier Provider** for modeling, simulation and training, and human performance

To achieve that vision we must act on the **Voice of the Customer**

+ Go Faster
+ Reduce Cost

**We Are Committed to**
Continuing to “Provide Great Products”
FOCUS AREAS

The Customer

Availability

Speed

Affordability

OUR #1 PRIORITY

Speed to the Fleet

+ Acquire, test, install & field capability at speed of relevance – not at speed of acquisition process
+ Find ways to go faster, push the envelope, & execute with acceptable risk
We Must Go Faster And Continue Doing The Good Things We Do
Questions
Acronyms

DMON – Distributed Mission Operations Network (Air Force)
DMT – Distributed Mission Training
DTNG – Distributed Training Network Guard
FETTN – FST-A Enterprise Tactical Training Network
FST-A – Fleet Synthetic Training – Aviation
NADMT – Naval Aviation Distributed Mission Training
NADTC – Naval Aviation Distributed Training Center
NCTE – Navy Continuous Training Environment
NETTN – Navy Enterprise Tactical Training Network
NGTS – Next Generation Threat Simulation
NOC – Network Operation Center
JSAF – Joint Semi-Automated Force
SAF – Simulated Automated Force
TES – Tactical Environment Simulation