Tip of the Sphere

Training Insights

By Larry Mize

Larry Mize //// Bio

Larry Mize graduated from Xavier University with a Bachelor of Science in Mathematics in 1973. He entered active service in the United States Navy serving a career specializing in Naval Intelligence, Aircraft Carrier Operations, Naval Special Warfare (SEALs), and Space Operations. He attended French language training at the Defense Language Institute and Subsequently served as the U.S. Navy Liaison Officer to the Commander French Forces Indian Ocean/French Foreign Legion/Commandos Marine in Djibouti. He attended Naval Postgraduate School and was awarded a Master of Science in Space Systems in 1986, subsequently serving at U.S. Space Command and U.S. Strategic Command. Mize is currently Chief of Space and Ground-based Midcourse Defense Education Training.

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Army Space Cadre Basic Course, Huntsville, Ala., 5-9 April 2010

Army Space Cadre Basic Course, JTAGS Detachment, Germany, Feb. 21-24, 2010

Army Space Cadre Basic Course - Frequently Asked Questions

By Lenny Gehrke, Course Manager

What is the Army Space Cadre Basic Course? Who is if for? Who provides the training? How can I get the training? The Army Space Cadre Basic Course is a 40-hour Army-centric space basics course for Soldiers, Civilian employees, and Contractors who need a foundational understanding of the basics of space technology, systems, mission areas, organizations and operations. This course is unique in that it's groomed to the customers. The course is set up with core space classes and electives selected by the customers, much like college courses. For example, if students conduct a space surveillance mission, space surveillance lessons may not be covered in the course, but can be replaced by other lessons pertinent to the students' mission. Schedules are coordinated between the course director and the point of contact or lead requesting the course.

The Directorate of Combat Development conducts the course both locally in Colorado Springs and remotely at locations all around the world. Just recently this course was provided to all the Joint Tactical Ground Station detachments (Central Command, European Command, and Pacific Command) at the request of the 1st Space Battalion Commander. Not only do students learn new information regarding space, but they better understand their mission and how it relates to the big picture of space.

Requesting the Army Space Cadre Basic Course training is easy, just ask. So far no request for training has been denied. The Directorate of Combat Development conducts course training multiple times annually and at different locations. The course is conducted in Colorado Springs and Huntsville at least twice a year and is coordinated and advertised well in advance. Under development is an 80-hour Army Space Cadre Basic Course that will be available for customers that require a more detailed Army space basics course. It is being designed to support those Soldiers and Civilians that do not have the opportunity to attend a variety of functional area, military occupational specialty, and additional skill identified dedicated courses (i.e. Functional Area 40, Joint Tactical Ground Station, AN/TPY-2 Sensor Manager, and Ground-based Midcourse Defense Operator).

Following the Army Space Cadre Basic Course, students receive all course lesson materials for future reference along with the Army Space Professional Reference Guide, a document developed for the Army Space Professionals. In addition to the Army Space Cadre Basic Course training, the staff provides Training Assistant Visits and Staff Assistant Visits to staff elements to help them understand how space capabilities can improve planning and mission execution.

Call! We deliver!

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TRAINING TRAINING TRAINING TRAINING

FWC DCD Lessons Learned Program

By Bill Coffey, Tactical Space Courses Instructor

Throughout the current war, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT) has developed means and methods to capture, analyze and disseminate space and space-related observations, insights, lessons and recommendations. Our efforts are grounded in Army Regulation 11-33, the "Army Lessons Learned Program" and tailored to the unique and ever-changing support requirements of Army and Joint space personnel, teams and elements. The one constant in our command's ability to continually learn the new and innovative space Tactics, Techniques and Procedures has been the feedback provided from our deployed and redeployed Army and Joint space personnel. As noted by the former U.S. Training and Doctrine Commander, GEN William Wallace, "During peacetime, the institutional Army drives change. During war, the operating force drives change through gained combat experience." As a direct result of the length of the current war and the need to continually spiral our space capabilities, USASMDC/ARSTRAT Future Warfare Center Directorate of Combat Development has developed and implemented a formal Lessons Learned process.

THE FWC DCD LESSONS LEARNED PROGRAM

The Lessons Learned program, establishes deliberate, systematic, and continuous processes for managing, collecting, analyzing, processing, storing, and disseminating space and space-related observations, insights, lessons learned and recommendations generated from U.S. Central Command deployed and redeployed Army and Joint space forces. The end results of this Lessons Learned Standard Operating Procedures is to provide information and knowledge to improve space operations through doctrine, organization, training, materiel, leadership

and education, personnel, and facilities decisions and actions. The primary focus of this Lessons Learned Standard Operating Procedure is on combat operations within the Central Command Area of Responsibility.

STANDARD OPERATING PROCEDURE SCOPE

Although focused primarily on operations within the U.S. Central Command Area of Operations, this Standard Operating Procedure also addresses processes for the collection, analysis and dissemination of observations, insights, lessons and recommendations from strategic space organizations, exercises, experiments, wargames and meetings such as symposiums, conferences, warfighter forums and training events.

USASMDC/ARSTRAT ROLES AND RESPONSIBILITIES

Multiple USASMDC/ARSTRAT units and organizations play a proactive role in using lessons learned observations and information in their specific processes, procedures, and products. The following supporting tasks are satisfied by our subordinate units and organizations.

DIRECTORATE OF COMBAT DEVELOPMENTS

Provides USASMDC/ARSTRAT Lessons Learned Program Manager and serves as the overall management authority for this Standard Operating Procedure. Also, DCD provides representation at each debrief to serve as Subject Matter Experts for their area and action lessons learned for their areas.

ARMY SPACE PROFESSIONAL DEVELOPMENT OFFICE

As the designated command POC for Army Space Knowledge Management, identifies, develops, advocates and manages select collaboration tools for the Army Space Cadre.

USASMDC/ARSTRAT G3 TRAINING AND EXERCISE

Serves as the command lead for integrating all OIL into Joint Lessons Learned Information System, Joint Training and Information System and Web-based Issue Resolution Database. Additionally, the Training and Exercises branch serves as the command lead for capturing observations, insights and lessons during exercises which involve Army and/or Joint space personnel/teams/elements, serving as lead for coordinating with the Joint and Coalition Forces Command J7/Joint Warfighting Center to develop space training objectives, space and space-related Master Scenario Events List, participating and supporting space personnel/teams/elements and capturing space, Special Technical Operations and Alternate or Compensatory Control Measures related observations, insights and lessons during each of these exercises.

SPACE AND MISSILE DEFENSE BATTLE LABORATORY

Serves as the USASMDC/ARSTRAT lead for capturing space and space-related equipment observations, insights and lessons for systems they have fielded. Also, serves as the manager of the SMDC Knowledge Management System where select observations, insights, lessons, recommendations and After Action Reports are archived. The SMDC Knowledge Management System is prototypical and currently has received a Certificate of Networthiness from Network Command. Initial access is through the Defense Research and Experimentation Network and NIPRNet (Space and Missile Defense Battle Lab is working with Army Forces Strategic Commands G6/CIO). SIPRNet accreditation has begun. SMDC Knowledge Management System will allow users to access knowledge (information with content) from any location that has internet, NIPRNet, and ultimately SIPRNet connectivity – SMDC Knowledge Management System is Internet Protocol based) and easily accessed via browser.

SUMMARY

This Lessons Learned program attempts to establish and maintain a culture within USASMDC/ARSTRAT in which every Soldier, government Civilian and supporting Contractor sees himself or herself as a collector of positive (sustain) and negative (improve or change) information with a responsibility to submit this information through his or her chain of command. Success in this culture is defined as the continuous collection and submission of observations, insights and lessons from every unit level; from the individual Soldier to the most senior leaders. The objective end results is to sustain, enhance, and increase our command's ability to provide timely and effective space force enhancement and space control to current and future land component forces and operations.

■ The 29th Infantry Division (Light) is an Army National Guard unit with elements in Virginia, Maryland, Massachusetts, New Jersey and Connecticut. The "Blue and Gray" Division is the only light infantry division in the entire reserve component.

"You Call, We Haul" – Training Assistance Visits

By Lenny Gehrke and Bill Coffey

When requested, the USASMDC/ARSTRAT Directorate of Combat Development's (DCD) Training Branch deploys tailorable space operations training teams to support unit training and leadership education requirements. Every Training Assistance Visit is customized to each unit's needs, considers deployment schedules, and integrates wartime requirements (current and emerging space operations and "Technical Operations" - Tactics, Techniques and Procedures) and supporting Operations Plans.

(Note: "Technical Operations" is a non-doctrinal term, but is commonly used today throughout Army Division and Corps headquarters. It largely defines the collective management, planning, integration and coordination of three major components: Space, Special Technical Operations and Alternate or Compensatory Control Measures. Technical Operations is usually organized within the C/G3 staff section, but at times within the C/G7. Additionally, Technical Operations includes any combination of other specialty staff skill sets and personnel. A division level Space Support Element, organized as Technical Operations, on average, currently include about 15 personnel (any combination of officers, enlisted, government employees, U.S. contractors and local nationals).

Each Training Assistance Visit is a tailored briefing, or multiple-day course, which does not conform to standardized courses such as the Army Space Cadre Basic Course or the Tactical Space Operations Course. Typically requested by Division and Corps level Space Support Elements), these Training Assistance Visits have for the past several years focused primarily on Central Command theater pre-deployment training requirements. Previous Training Assistance Visits have also been deployed to support headquarters from other Geographical Combatant Commands, to include Northern Command and Pacific Command.

During one recent example, in March 2010 the Training Branch deployed a Training team to the 29th Infantry Division (Virginia Army National Guard)

■ The 36th Infantry Division - also known as the Fighting 36th, the Panther Division, or the Texas Division - is a modular division of the United States Army National Guard. It was activated for service in World War II on November 25, 1940, and was sent overseas in April 1943.

■ The 2nd Infantry Division, as of 2009, was one of the most forward deployed, lethal and combat ready division in the US Army. The 2nd Infantry Division's mission was to deter war.

in support of their training preparations for an upcoming Operation Iraqi Freedom deployment (after this Training Assistance Visit, the 29th Infantry Division's deployment order was unexpectedly cancelled). This Training Assistance Visit team included a recently redeployed Space Support Element Chief as the Subject Matter Expert and detailed for the commanding general and his staff the concept, functions and enabling skill sets associated with Technical Operations. This Training Assistance Visit fully considered and incorporated how past and currently deployed Division and Corps commanders in the Central Command Theater have been utilizing their organic Space Support Elements. As part of the G3's Technical Operations team, each currently lead by Space Support Element Chiefs in Central Command, this briefing covered the collective staffing, training and materiel requirements for the operational integration of Space Force Enhancement, Space Control, Special Technical Operations, Alternative Compensatory Control Measures and other enabling skill sets and functions which include, but is not limited to, electronic warfare, information operations, information engagement, cyberspace operations and civil military operations. Adhering to the concept that doctrine is the "capture of best practices," the Training Assistance Visit briefing teams fully embrace the realities, and associated Tactics, Techniques and Procedures, of how our Space Support Elements and Army Space Support Teams are currently tasked and employed throughout the Central Command Area of Responsibility.

Another recent example was a Training Assistance Visit to the headquarters of the 36th Infantry Division (Texas Army National Guard) in April 2010. This visit, requested by their Space Support Element, also provided a two hour briefing to the Commanding General and about 50 of his staff Soldiers on Operation Iraqi Freedom Technical Operations requirements. In a note to the Director of USASMDC/ARSTRAT's DCD, the 36th Infantry Division Chief of Staff noted, "I am writing to tell you how thoroughly we enjoyed the Staff Assistance on 9 April. [They] provided our CG and Staff an excellent overview of Army Space Operations and an explanation of the value added to our division operations in Iraq. They spent two days with our Staff, meeting with G2, G3, G6, G7, FSCOORD and Space Support Element. We all learned from these Subject Matter Experts and our command is better prepared for our deployment to Iraq. Thank you for sending [this team] to conduct this Staff Assistance Visit."

Most recently, the Training Branch deployed a Training Assistance Visit team to support training requirements of the 2nd Infantry Division headquarters and brigade level Army units (2nd Heavy-Brigade Combat Team, 2nd Combat Aviation Brigade and 210th Fires Brigade) in South Korea. Prior to this trip, the Training Assistance Visit briefing team developed customized presentations on space support to several real-world Operational Plans. Collectively, these briefings focused on real-world requirements for Major Combat Operations, while most of the rest of our Army is currently consumed with training for Counter-Insurgency and stability operations. The Training Assistance Visit, conducted over a five-day period, generated much discussion and plans to further leverage additional space capabilities and effects in support of their training events, garrison operations and war plans.

The USASMDC/ARSTRAT Training Branch remains fully available to support unit training and leadership education requirements using our pool of space trainers as well as recently redeployed Subject Matter Experts from throughout our command. Each future Training Assistance Visit will customize training and educational materials to support unit needs. We remain as a worldwide deployable and ready team of trainers to support training and educational needs. You call, we haul.