

# Engineer Doctrine and Doctrine 2015

By Lieutenant Colonel Sinlan Morrow

**D**octrine 2015 is a Department of the Army initiative to streamline Army doctrinal manuals so there will be fewer—but better-written—manuals that will be relevant and can be updated to reflect today's operational environment. It creates five separate categories of publications. Four of the categories are doctrinal publications. Technical manuals (TMs), found in the fifth category, are general subject manuals, departmentally approved by the U.S. Army Engineer School commandant. TMs will continue to drive doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF) domain requirements. In October 2011, Army Doctrine Publication (ADP) 3-0, *Unified Land Operations*,<sup>1</sup> was published, signifying the official transition to Doctrine 2015.

## Army Doctrine Publications

**A**DPs will contain only fundamental principles and are limited to 15 pages in a 6- by 9-inch book format. As of this writing, the U.S. Army Combined Arms Center, Fort Leavenworth, Kansas, has identified 15 ADPs. ADP 1, *The Army* (replacing Field Manual [FM] 1-0, *Human Resources Support*<sup>2</sup>) and ADP 3, *Unified Land Operations* (replacing FM 3-0, *Operations*<sup>3</sup>) are the only two publications considered to be Army “capstone” manuals.

## Army Doctrine Reference Publications

**A**rrmy doctrine reference publications (ADRP) provide detailed explanations of the principles contained in the ADPs. There should be only one ADRP for each ADP. These publications are limited to 75 to 100 pages and must contain only the details that explain the principles in the ADPs.

## Field Manuals

**F**Ms will contain tactics and procedures. There will be no more than 50 Army FMs. FM 3-34, *Engineer Operations*,<sup>4</sup> will be engineer-led. FM 3-34 was published in August 2011 and will undergo another revision to align it with ADP/ADRP principles. All ADPs and ADRPs should be published by October 2012.

## Army Techniques Publications

**A**rrmy techniques publications (ATPs) describe techniques that are nonprescriptive ways or methods to perform missions, functions, or tasks. The life

expectancy for ATPs is 5 to 10 years. The Engineer Regiment is responsible for 13 ATPs:

1. *Explosive Hazard Operations.*
2. *Engineer Operations—Brigade Combat Team and Below.*
3. *Engineer Operations—Echelons Above Brigade Combat Team.*
4. *Survivability.*
5. *Combined Arms Mobility.*
6. *Combined Arms Countermobility.*
7. *General Engineering.*
8. *Geospatial Engineering.*
9. *Engineer Reconnaissance.*
10. *Brigade Special Troops Battalion.*
11. *Environmental Considerations.*
12. *Combined Arms Counter Improvised Explosive Device Operations.*
13. *Base Camps.*

An important feature of an ATP will be the ability of the engineers to provide relevant feedback via the “milWiki” Web site at [https://www.milsuite.mil/wiki/Portal:Army\\_Doctrine](https://www.milsuite.mil/wiki/Portal:Army_Doctrine). All milWiki publications are unauthenticated and should only be used by the field to make recommended changes to them. This is your opportunity to make a contribution. These comments will be reviewed, vetted, and approved by the U.S. Army Engineer School. The only publications that should be referenced during the execution of operations are on the following authenticated sites:

- General Dennis J. Reimer Training and Doctrine Digital Library, <http://www.train.army.mil/>.
- Army Publishing Directorate, <http://www.apd.army.mil/>.

## Technical Manuals

**T**Ms are general subject publications that contain technical information specific to the Engineer Regiment. While they are Department of the Army-approved, they are not authenticated as doctrine by the

	1st Quarter	2d Quarter	3d Quarter	4th Quarter
Fiscal Year (FY) 2012	<p><b>Conversion Complete Pending Publication</b></p> <p>TM 3-34.22, <i>Military Nonstandard Fixed Bridging</i>  TM 3-34.23, <i>Bailey Bridge</i>  TM 3-34.44, <i>Concrete and Masonry</i>  TM 3-34.45, <i>Engineer Prime Power</i>  TM 3-34.46, <i>Theater of Operations Electrical Systems</i>  TM 3-34.47, <i>Carpentry</i>  TM 3-34.50, <i>General Drafting</i>  TM 3-34.51, <i>Construction Drafting</i>  TM 3-34.52, <i>Construction Print Reading</i>  TM 3-34.53, <i>Topographic Surveying</i>  TM 3-34.61, <i>Geology</i>  TM 3-34.62, <i>Earthmoving</i>  TM 3-34.63, <i>Paving and Surfacing</i>  TM 3-34.65, <i>Military Soils Engineering</i>  TM 3-34.70, <i>Plumbing, Pipefitting, and Sewers</i>  TM 3-34.72, <i>Pile Construction</i>  TM 3-34.73, <i>Port Construction and Repair</i>  TM 3-34.82, <i>Explosives and Demolitions</i>  TM 3-34.85, <i>Engineer Field Data</i>  TM 3-34.86, <i>Rigging Techniques and Procedures</i></p>	<p>TM 3-34.41, <i>Construction Planning and Estimating</i>  TM 3-34.42, <i>Project Management</i>  TM 3-34.43, <i>Materials Testing</i>  TM 3-34.49, <i>Multiservice Procedures for Well Drilling</i></p>	<p>TM 3-34.55, <i>Construction Surveying</i>  TM 3-34.56, <i>Waste Management</i>  TM 3-34.65, <i>Quarry Operations</i></p>	<p>ATP 3-34.35, <i>Survivability</i></p>
FY 2013	<p>ATP 3-37.10, <i>Base Camps</i>  ATTP 3-90.4, <i>Combined Arms Mobility</i> (August 2011) (Renumber from ATP to ATP)  (ADPs/ADRP and TMs Complete)</p>	<p>FM 3-34, <i>Engineer Operations</i> (August 2011)  ATP 3-34.22, <i>Engineer Operations—Brigade Combat Team and Below</i></p>	<p>ATP 3-34.20, <i>Explosive Hazard Operations</i>  ATP 3-34.23, <i>Engineer Operations—Echelons Above Brigade</i>  ATP 3-34.5, <i>Environmental Considerations</i>  ATP 3-90.8, <i>Combined Arms Countermobility</i></p>	<p>ATP 3-34.40, <i>General Engineering</i></p>
FY 2014	<p>(FMs Complete)  ATP 3-34.80, <i>Geospatial Engineering</i></p>	<p>ATP 3-34.81, <i>Engineer Reconnaissance</i>  ATP 3-90.37, <i>Combined Arms Improvised Explosive Device Defeat</i></p>	<p>ATP 3-90.61, <i>Brigade Special Troops Battalion</i>  (ATPs complete by December 2015)</p>	<p>NA</p>

Administrative Assistant to the Secretary of the Army. There are 32 engineer FMs awaiting conversion to TMs.

## Engineer Regimental Doctrine

The Engineer Regimental doctrine library will consist of 14 doctrinal manuals—1 FM and 13 ATPs. This is an opportunity to capture the Engineer Regiment's lessons learned over the past decade. Now is the time to get doctrine right. The U.S. Army Engineer School is committed to harnessing the operational experiences of the Soldiers passing through our schools. They will collect the DOTMLPF aspects and historical data as part of the Army-wide effort. This will be an exciting time for the Engineer Regiment. The commandant of the U.S. Army Engineer School and the Chief of Engineers will use our current experienced force to help update engineer doctrine and set in place procedures to keep it updated. Recently discussed was how the generating and operating forces could partner to update doctrine undergoing revision so that engineers can remain trained and prepared without losing fundamental principles, tactics, and procedures. One way to accomplish this would be to have engineer units sponsor publications that align with their mission-essential task lists. Another way would be to take advantage of engineers returning as students from recent deployments

to participate in doctrinal working groups or doctrinal reviews. This will be one of the top Engineer Regimental priorities.

The Engineer Doctrine Update (page 34), which details the publication status of all the engineer manuals, has been modified to reflect Doctrine 2015.

### Endnotes:

<sup>1</sup>ADP 3-0, *Unified Land Operations*, 10 October 2011.

<sup>2</sup>FM 1-0, *Human Resources Support*, 6 April 2010.

<sup>3</sup>FM 3-0, *Operations*, 14 June 2001.

<sup>4</sup>FM 3-34, *Engineer Operations*, 4 August 2011.



*Lieutenant Colonel Morrow is chief of Engineer Doctrine at the U.S. Army Maneuver Support Center of Excellence, Fort Leonard Wood, Missouri. She holds a bachelor's degree in civil engineering from California State University at Long Beach and a master's degree in engineering management from Missouri University of Science and Technology at Rolla. She is a graduate of the U.S. Army Command and General Staff College, the U.S. Army Combined Arms and Services Staff School, and the Engineer Captains Career Course.*