

United States Government Accountability Office Washington, DC 20548

March 16, 2012

**Congressional Committees** 

# Subject: Military Training: Observations on the Army's Implementation of a Metric for Measuring Ground Force Training

In 2008, the Army issued a field manual that identified the need to expand its training focus so units would be trained and ready to operate across a full spectrum of operations including offensive, defensive, stability, and civil support operations.<sup>1</sup> To support operations in Iraq and Afghanistan, for the last several years, the Army has focused its ground force training on preparing units for counterinsurgency operations. With the withdrawal from operations in Iraq, fewer units are engaged in counterinsurgency operations and now have more time to train for full spectrum operations.

To reflect the shift in training focus, the Army, in April 2011, updated its training strategy and also established a new metric to measure training activity—referred to as the full spectrum training mile metric. This metric replaced the Army's traditional tank mile metric, which represented the average number of miles the Army expected to drive its tanks while conducting training. In its fiscal year 2012 budget materials, the Army provided background information on its transition to the new metric, and, starting in fiscal year 2012, began using the new metric.

House report 112-78<sup>2</sup> directed GAO to review the Army's transition to the full spectrum training mile metric and report its findings by February 28, 2012. To address this mandate, we determined (1) how the Army's full spectrum training mile metric differs from its traditional tank mile metric; (2) the key assumptions associated with the full spectrum training mile metric and to what extent these assumptions reflect actual conditions; and (3) to what extent the Army uses the full spectrum training mile metric to measure training execution and develop training cost estimates and related funding needs. Additionally, for background purposes, this report includes information on how training is reflected in the Army's operation and maintenance budget-justification materials.

We briefed the congressional defense committees in January 2012 and have included the briefing in enclosure 1 of this report.

<sup>&</sup>lt;sup>1</sup>Army Field Manual 7-0, *Training for Full Spectrum Operations* (Dec. 2008).

<sup>&</sup>lt;sup>2</sup>H.R. Rep. No. 112-78, which accompanied a bill for the National Defense Authorization Act for 2012, Pub. L. No. 112-81 (2011).

## Scope and Methodology

To address our objectives, we reviewed and analyzed a number of training- and budget-related documents including the Army's: training strategy, field manual for full spectrum operations training, relevant Army guidance, the Army's fiscal year 2012 operation and maintenance budget request and supporting budget-justification books, and several briefings that described the tank mile and full spectrum training mile metrics. We also reviewed recent evaluations of Army training, including prior GAO reports, and discussed all of these issues with responsible Department of the Army headquarters officials. Because it is used in developing cost estimates for training, we briefly discuss the Army's Training Resource Model in this report. However, we did not fully analyze the model or its output estimates.

We conducted this performance audit from June 2011 to March 2012 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for any findings and conclusions based on our audit objectives.

#### Summary

The full spectrum training mile metric is similar in some ways to the tank mile metric and dissimilar in other ways. Both metrics measure training activity of nondeployed units associated with recommended training events based on the Army's approved training strategy. Specifically, they both calculate the average number of miles a unit is expected to drive its vehicles on an annual basis for training that occurs during the reset and train/ready stages of the Army's Force Generation (ARFORGEN) cycle.<sup>3</sup> However, the full spectrum training mile metric applies to all Army components (active component, Army Reserve, and Army National Guard) while the tank mile metric does not apply to the Army Reserve, because the Army Reserve does not have tanks. The full spectrum training mile metric also is based on multiple vehicles including the M1 Abrams tank, M2/M3 Bradley, Stryker, up-armored high mobility multipurpose wheeled vehicle, medium tactical vehicle, and palletized load system, while the tank mile metric is limited to the M1 Abrams tank. According to Army officials, the full spectrum training mile metric-and its incorporation of a wider array of vehicles-is more reflective of the type of vehicles the Army is actually using to train its ground forces for full spectrum operations.

The Army's full spectrum training mile metric is based on certain assumptions associated with standards set in the Army's training strategy and force-generation model. Because the metric is a standard for actual training to be measured against, the metric's assumptions are based on desired or expected conditions and may not fully

<sup>&</sup>lt;sup>3</sup>The Army issued Army Regulation 525-29, *Army Force Generation* (Mar. 14, 2011), institutionalizing the Army Force Generation Model (ARFORGEN) and process in March 2011. The ARFORGEN model helps the Army manage its personnel and equipment, coordinate training, and prioritize resources. Under this model, units progress through a series of three stages—reset, train/ready, and available—and training varies during each of the stages.

align with actual conditions. For example, the Army made certain assumptions about the length of time units would spend in each stage of the ARFORGEN cycle, assumed that units would have all the vehicles that were included in their modified table of organization and equipment,<sup>4</sup> and assumed units would accomplish all the training in the Army's training strategy. However, prior GAO reports and Army readiness reports have both shown that units do not always have all the equipment, including vehicles included in their modified table of organization and equipment, available when they are conducting training. Army officials have also acknowledged that many units are not currently executing the ARFORGEN training cycle and the Army's training strategy as envisioned. To the extent that units do not have all of their equipment, including vehicles, or complete all recommended training, the units' actual miles driven may differ from the Army's full spectrum training mile metric. According to a responsible Army official, the Army tracks historical data on actual miles driven and has, in the past. adjusted assumptions used to develop its tank mile metric to more closely reflect actual conditions. The Army plans to continue this practice now with the new metric in place. For example, when conducting its 2010 training strategy review, the Army reduced its estimated miles per training day and event to more closely reflect actual miles driven.

The Army uses the full spectrum training mile metric to measure training activity. Specifically, the Army compares the actual miles its units have driven to conduct ground force training to its full spectrum training mile metric to determine how well it executed its training strategy. However, the Army does not use the full spectrum training mile metric to develop its training cost estimates or related funding needs. The Army uses its Training Resource Model, rather than its full spectrum training mile metric, to develop its training cost estimates and funding needs. While some of the inputs to the full spectrum training mile metric and the Training Resource Model are the same (i.e., the number and duration of training events and the numbers of units and vehicles available for training) the Training Resource Model contains unique inputs, such as cost factors that are not related to the full spectrum training mile metric. Specifically, the cost calculation in the Training Resource Model includes the cost to drive a vehicle, expressed as cost per mile, that are linked to the number of units and vehicles, as well as other indirect nonmileage support costs, such as civilian pay. The Training Resource Model, like the full spectrum training mile metric, assumes, among other things, that all recommended training events will be fully executed. To the extent that all training does not occur or other assumptions do not hold true, requirements could differ from estimates derived from the Training Resource Model. According to an Army official, the Training Resource Model is one of several sources of information the Army considers when developing its funding requests for training. For example, the official stated the Army uses historical data on actual miles driven to adjust its funding requests to more closely reflect actual conditions.

We provided a copy of this report to the Department of Defense for review. The department declined to comment on the report.

<sup>&</sup>lt;sup>4</sup> The Modified Table of Organization and Equipment (MTOE) is a document that prescribes the wartime mission, capabilities, organizational structure, and mission essential personnel and equipment requirements for military units.

We are sending copies of this report to the Secretary of Defense, the Secretary of the Army, and to the appropriate congressional committees. The report also is available at no charge on the GAO website at <a href="http://www.gao.gov">http://www.gao.gov</a>. Should you or your staff have any questions concerning this report, please contact me on 202-512-9619 or <a href="mailto:pickups@gao.gov">pickups@gao.gov</a>. Contact points for our offices of Congressional Relations and Public Affairs may be found on the last page of this report. GAO staff who contributed to this report are listed in enclosure II.

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Enclosures - 2

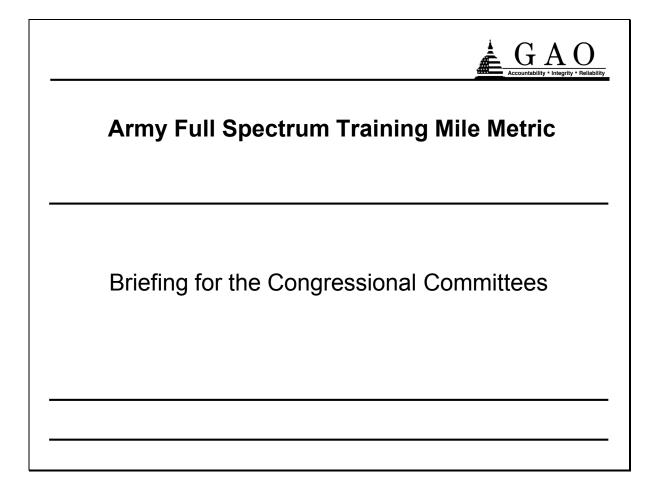
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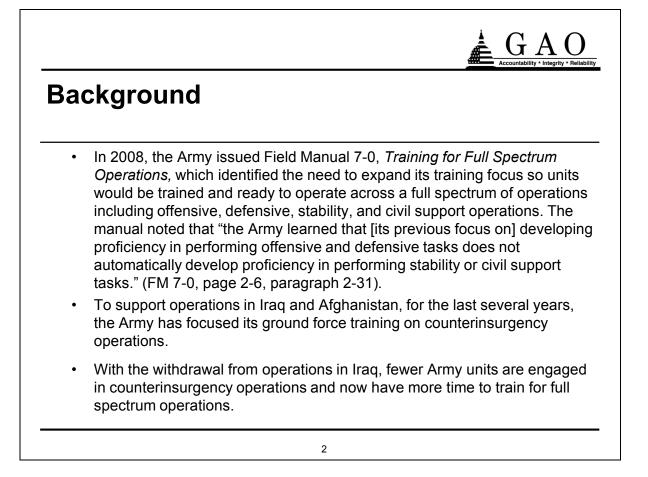
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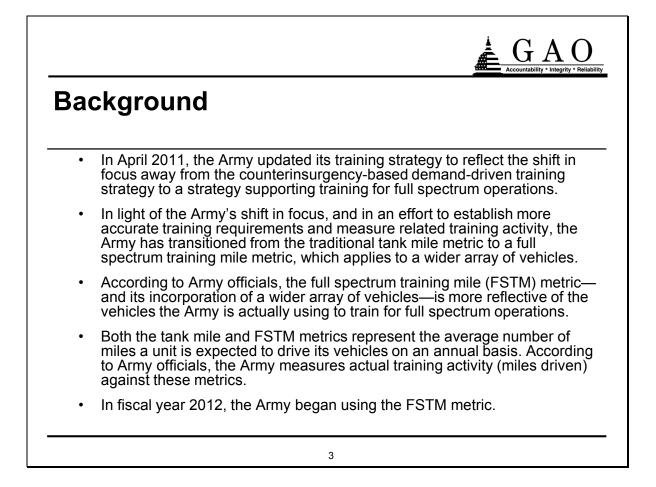
The Honorable Daniel K. Inouye Chairman The Honorable Thad Cochran Ranking Member Subcommittee on Defense Committee on Appropriations United States Senate

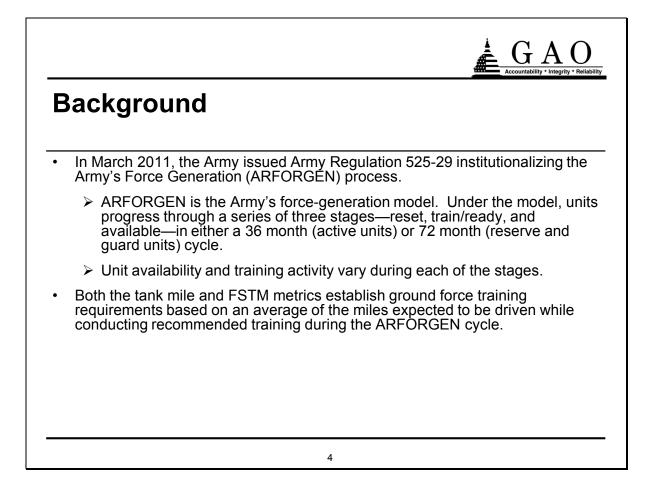
The Honorable Howard P. "Buck" McKeon Chairman The Honorable Adam Smith Ranking Member Committee on Armed Services House of Representatives

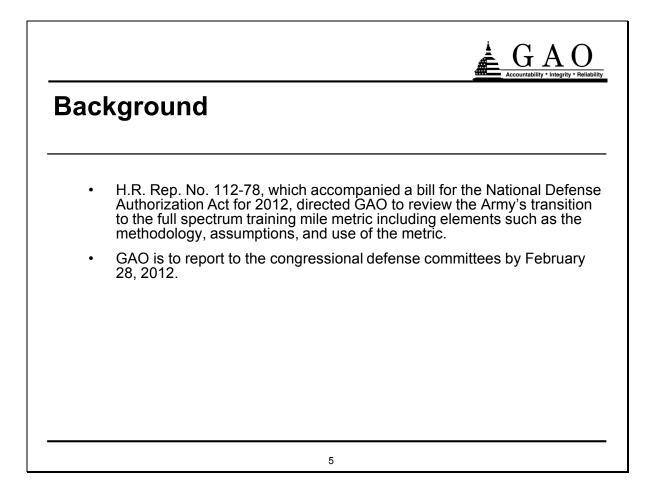
The Honorable C.W. "Bill" Young Chairman The Honorable Norman D. Dicks Ranking Member Subcommittee on Defense Committee on Appropriations House of Representatives **Briefing for the Congressional Committees** 

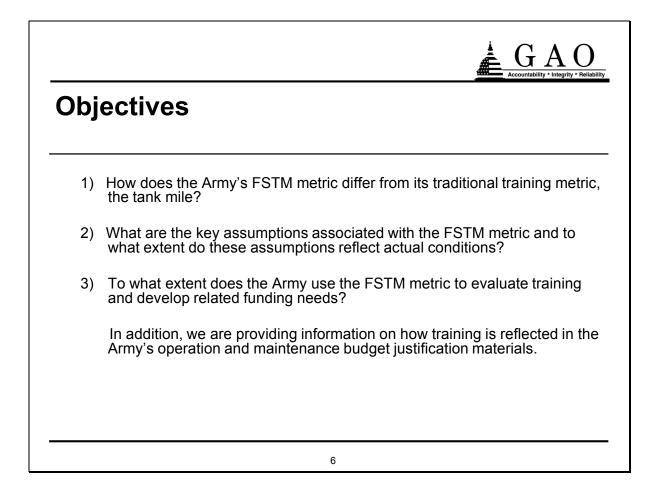


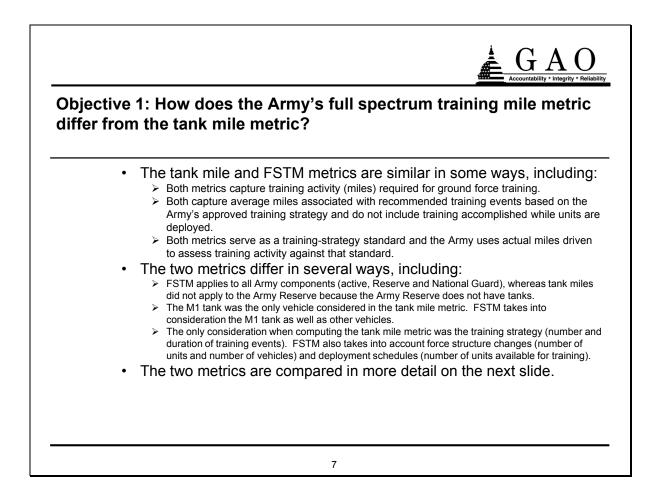


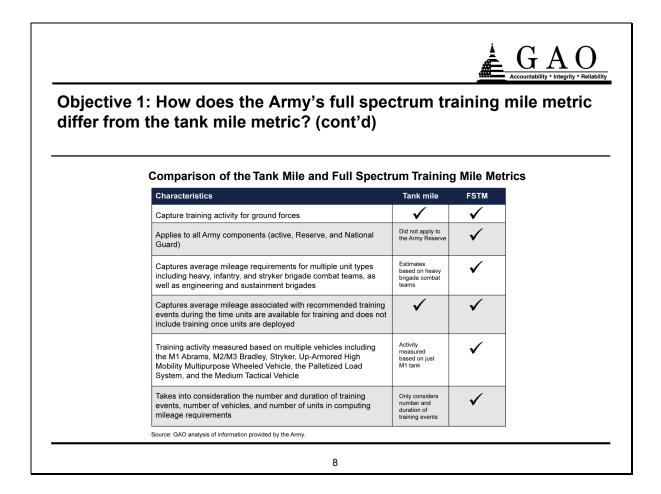


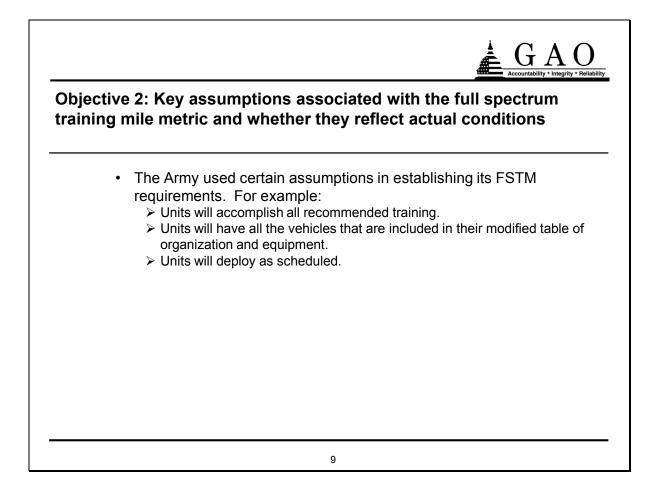


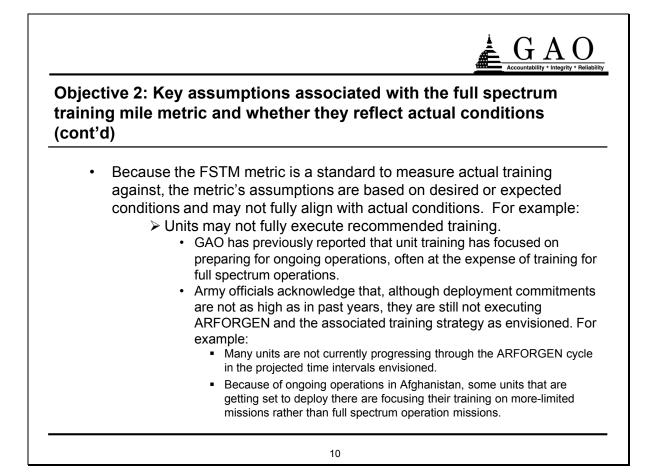


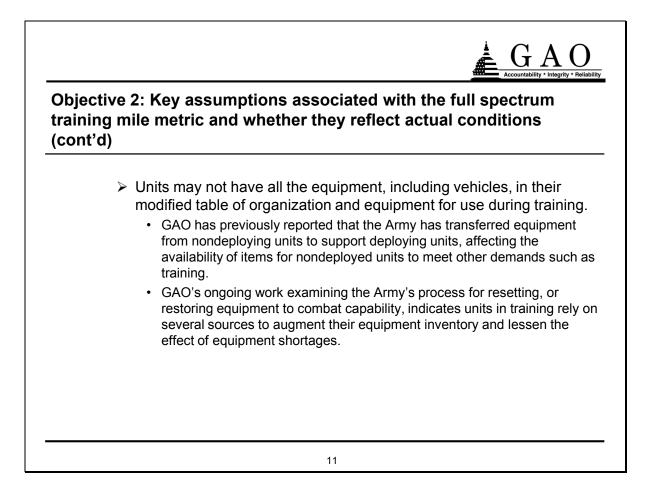


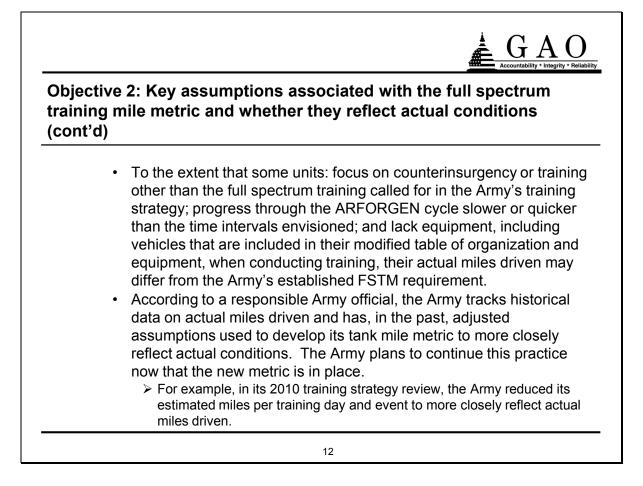


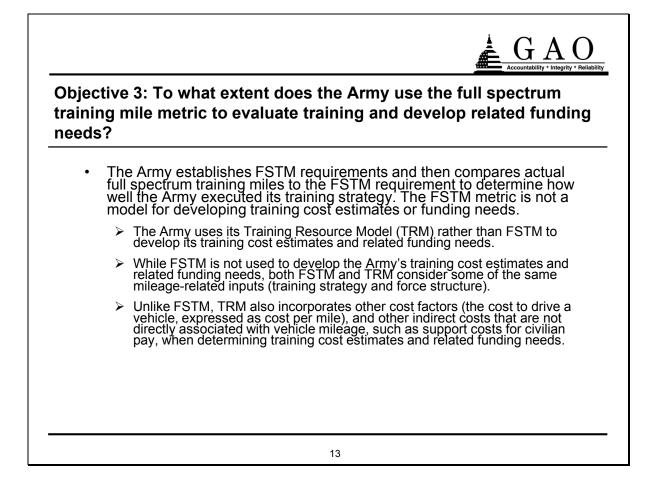


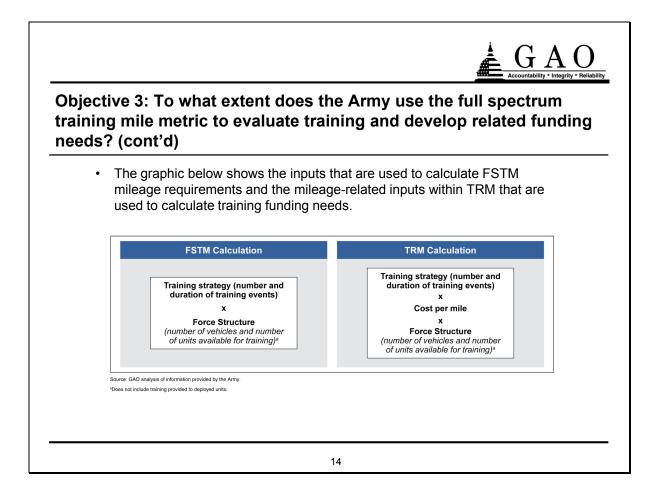


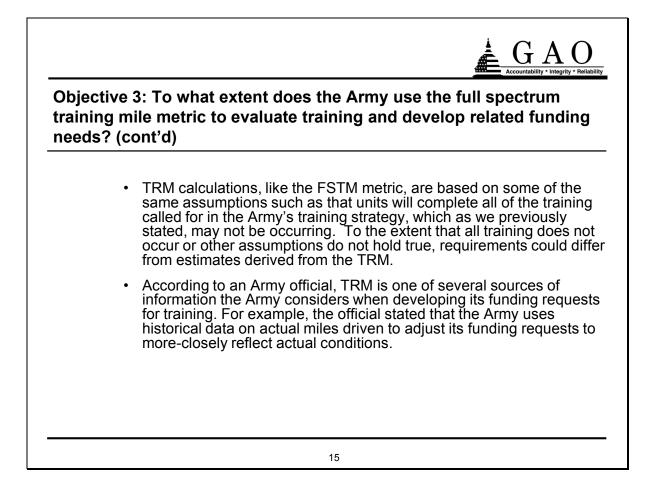


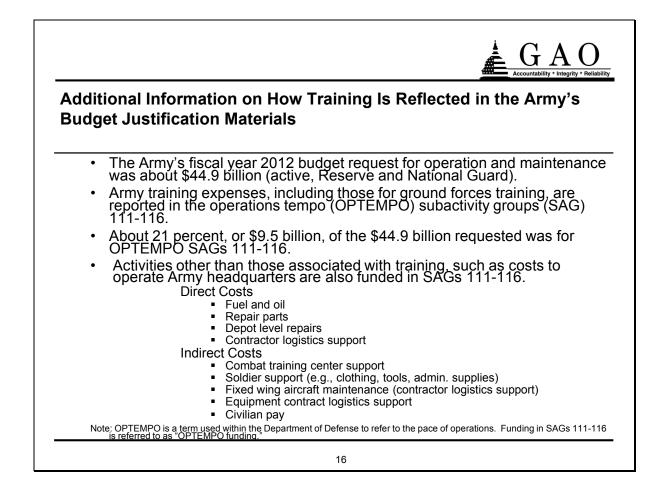


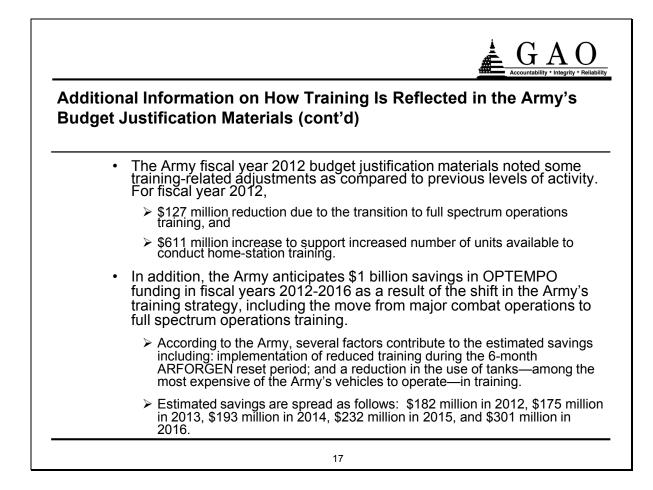


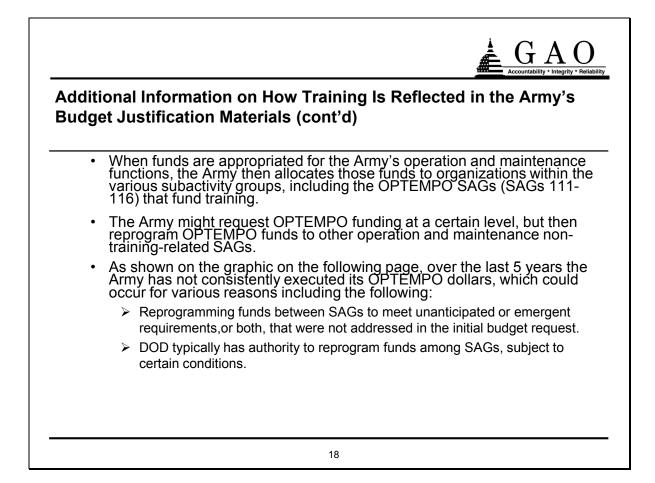


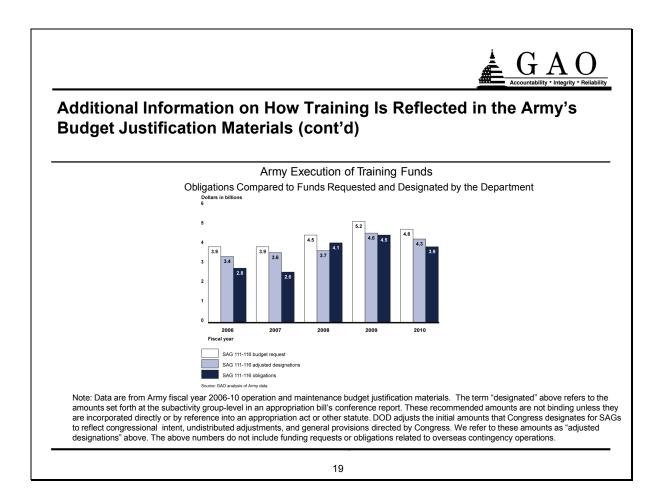












# Enclosure II

# GAO Contact and Staff Acknowledgments

## GAO Contact

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#### Staff Acknowledgments

In addition to the contact named above, key contributors to this report included Mike Ferren, Assistant Director; Bruce Brown; Grace Coleman; Donna Evans; Charles Perdue; Steve Pruitt: Sharon Reid; Amie Steele; Susan Tindall; and Nicole Willems.

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