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Force projection, at the right time and place, is a critical component to Operational Art; consequently, TPFDDs remain relevant, now and in the foreseeable future

by

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A paper submitted to the Faculty of the Naval War College in partial satisfaction of the requirements of the Department of Joint Military Operations.

The contents of this paper reflect my own personal views and are not necessarily endorsed by the Naval War College or the Department of the Navy.

Signature: [Signature]

31 October 2008
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Abstract

During Operation DESERT SHIELD, U.S. forces were deployed using a TPFDD (Time Phased Force Deployment and Data) process, albeit with mixed reviews. During Operation IRAQI FREEDOM, however, the Secretary of Defense decided to scrap the TPFDD process in favor of a new Request for Forces (RFF) process. Today, both processes are still being used, but the utility of each is the subject of question. This paper analyzes the mechanics of the TPFDD process and its ensuing use during Operation DESERT SHIELD. Subsequently, the mechanics of the RFF process is analyzed, along with its use during Operation IRAQI FREEDOM. The mechanics of each process are then compared, with the end results showing that the TPFDD process provides far more detail and meaningful planning data to aid planners and commanders in designing a major operation or campaign. The RFF process, on the other hand, lacks the substance that is necessary to plan and execute major operational deployments. Finally, the advent of new planning processes and systems will keep the TPFDD process viable now and in the foreseeable future.
One of the most critical factors for the success of a campaign or major operation is the timely strategic and/or operational deployment of combat forces from their home bases or staging areas into the theater. The deployment should be considered not a supporting plan but the very heart of the plan for the major combat phase of a campaign or major operation.

Milan N. Vego, *Joint Operational Warfare*

**Introduction**

War, as defined by Clausewitz, is “an act of force to compel our enemy to do our will.”\(^1\) Wars, limited and unlimited, between belligerents have taken place for centuries. The tactics, techniques and procedures have evolved, as have the societies that battled one and other; however, there is one aspect of war that has not changed—the prerequisite to bring combat forces to the battlefield. The aim is to project the right forces, at the right time, and in the right place in order to defeat the enemy. The forces, to include all necessary resources, are the means to accomplish a sequence of actions in order to achieve political or military objectives. During Operation IRAQI FREEDOM (OIF), Secretary of Defense (SECDEF) Rumsfeld identified seven military objectives, which included (1) putting an end to Saddam Hussein’s regime, (2) getting rid of terrorists and (3) creating a representative government that will exist peacefully in the region.\(^2\) The U.S. military, along with coalition forces, did achieve the first objective identified above; however, the two remaining objectives identified above have yet to be accomplished. Accordingly, it can be argued that the force deployment planning and execution process influenced the outcome with regards to achieving (or not) the objectives identified by the SECDEF. Department of Defense (DOD) doctrine at the outset of OIF prescribed that we plan and execute deployments through a TPFDD (or Timed Phased

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Force Deployment and Data—pronounced “Tip-fid”) process. However, our forces were deployed in support of OIF using a new Request for Forces (RFF) process. Despite the fact that the TPFDD process has been criticized as cumbersome and lacking in flexibility, it still remains the better process—as opposed to the RFF process used during OIF—to plan and execute force deployments in support of major operations because it provides the detail that is necessary to project forces and support the operational commander’s vision.

While some would argue that the two processes are not germane for comparison, this is clearly not the case. Both processes were used to deploy forces in two significant operations since 1990—Operation DESERT SHIELD and OIF—and the processes were significantly different, contributing to different levels of success. Moreover, as a result of OIF, notable assessments were made to differentiate the processes. To be sure, SECDEF Rumsfeld scrapped the TPFDD process and later stated, “The deployment and redeployment process was—I don’t want to say ‘ugly,’ but it was—I suppose a nice way to say it—it was imperfect.”³ He further described the TPFDD as a “crude instrument.”⁴ Former Vice Chairman of the Joint Chiefs of Staff, when asked about throwing out the TPFDD, stated “It was a conscious decision to do away with the TPFDD [process]….”⁵ The two components with the largest forces that deployed into Iraq, the Army and Marine Corps, have strong views on these deployment processes. In short, the Army considers the processes radically different—the TPFDD process being absolutely essential to successfully executing their

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⁴ Ibid.
⁵ Gen Peter Pace, Vice Chairman, Joint Chiefs of Staff (address, Defense Writers Group, 24 September 2003). http://www.jcs.mil/vice_chairman/speeches/defense_writers_group.html (accessed September 12, 2008).
operational plan; the RFF process falling well short in numerous aspects that were necessary to achieve military objectives.\(^6\) The Marines had very similar views to the Army.\(^7\)

**Background**

The TPFDD is the Joint Operation Planning and Execution System (JOPES) database portion of an operations plan that is used to plan and manage the movement of forces and non-unit cargo and equipment from their point of origin to their final destination.\(^8\) It enables operational art and campaign design by providing tools to effectively sequence and/or synchronize the flow of forces into the theater of operations according to the operational commander’s vision or scheme of maneuver in order to achieve his desired end-state. The TPFDD can be thought of as the glue that binds the *ends, ways and means*—or the objectives, operational design and the resources required. TPFDDs contain voluminous amounts of critical information; however, this section will focus on information that is most relevant for planners and commanders—what forces are required, where are they coming from and where are they going, when they are required and how they will get to their destination (*who, where, when* and *how*). This information is input into the JOPES database; the *what* and *why* is provided in the operation order. In short, a TPFDD is how an operational commander can visualize his deployment plan and prioritize his force flow into a theater of operations.

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\(^8\) It should be noted that the term JOPES and TPFDD were (and still are) often used synonymously throughout the DOD. Joint Publication 1-02 defines JOPES as “a system of joint policies, procedures, and reporting structures supported by communications and computer systems, that is used by the joint planning and execution community to monitor, plan, and execute mobilization, deployment, employment, sustainment, redeployment, and demobilization activities associated with joint operations.” The TPFDD is merely the database portion of an operation plan that is developed using JOPES. Therefore, when planners develop a TPFDD, they are using JOPES—the JOPES database—however, the TPFDD itself is not JOPES. Military members sometimes confuse the two terms; yet, frequently the terms are used interchangeably without confusion.
With the above in mind, TPFDDs are developed regressively (or should be) based on the operational commander’s desired end-state for the operation. By knowing the intended outcome, planners can then sequence and synchronize actions that are required to achieve the desired end-state; this where the TPFDD proves most valuable. The sequence and synchronization of actions requires specific forces (people and equipment) at specific times and at specific locations—these three requirements are identified in TPFDDs (*who*, *when*, and *where*). The *how* is also provided in the TPFDD, but is a function of many things, including strategic lift assets available (e.g., airplanes and ships), ports of embarkation (POE) and ports of debarkation (POD) to be used, distances to travel, over-flight permissions required, and much more.

During the deployment planning phase of an operation, the factors of time, space and force are considered in detail. This is done by analyzing the TPFDD with various computer simulation models, such as the Joint Flow and Analysis System for Transportation, which can be used to determine the strategic transportation feasibility. There are other models available to analyze movement from unit home stations to POEs, as well as models to analyze reception, staging, onward movement and integration (RSOI) from the POD to the final destination. These models can provide force closure estimates based on a host of facts or assumptions such as: strategic lift assets available, road infrastructure, mobilization timelines, number of people to move, the amount and size of equipment to move, the sequencing of forces (both people and equipment), home stations, POEs/PODs, material handling equipment and other port enablers, approved or disapproved country over-flight requests, and distances, among many other criteria. Based on the planning factors (either known facts or assumptions) input into the models when analyzing the TPFDD, various
decision making data is provided in the form of charts, graphs, tables and the like. This data identifies go, slow-go and no-go criteria for the development of the deployment plan. Planners and commanders can also change the scenario—either the planning factors (again, based on new facts or assumptions) or the force sequencing—and analyze alternate operational designs or courses of action.

Another critical capability of deployment planning with a TPFDD is the ability for multiple commands and organizations within the Joint Planning and Execution Community (JPEC) to access one common database that is designated to support an operation. Importantly, each organization can see the same force composition and sequencing that has been input into the JOPES database. For example, force providers or component commands can populate a TPFDD with force capabilities, regional combatant command planners can then plan the sequence of the forces based on effects that must be achieved, and finally United States Transportation Command (USTRANSCOM) planners can begin strategic transportation planning and analysis, which includes modeling the TPFDD. Throughout the process, planners from each organization can communicate priorities and planning assumptions, provide feedback based on different levels of planning and analysis, and then incorporate changes as required. In reality this is a time consuming and tedious process, but absolutely necessary.9

The RFF process is quite different from the TPFDD process, and from the initial appearance seems to be quite simpler, more flexible and more responsive. While the RFF process is now formally identified as a deployment process in joint doctrine, it has evolved

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9 This is based on the author’s personal experience while assigned as a planner in the J-3, U.S. Transportation Command from August 2001 – June 2004.
since its inception during OIF planning in the fall of 2002. Procedures used during OIF will be used to describe the process, especially since this has been the only time that the process was used to plan and execute force deployments at the outset of a major operation. The process begins when a component command, such as United States Army Central, identifies forces to United States Central Command (USCENTCOM) that are necessary to support an operation or campaign plan. In turn, USCENTCOM submits an RFF in DMS GENSER message format to the SECDEF via the Chairman of the Joint Chiefs of Staff for approval. The SECDEF then approves, disapproves, modifies or groups the request with other requests. Finally, assuming some form of approval, the SECDEF issues a deployment order (DEPORD) for the approved forces, which may or may not match the original RFF. At this point, planners can begin coordinating the details to deploy the forces that have been approved in the DEPORD.

As a result of implementing the Global Force Management (GFM) and Joint Force Provider (JFP) construct, the process has changed and now includes input by United States Joint Forces Command (USJFCOM), who is the conventional forces provider, as well as other force providers. With the advent of GFM/JFP, JFCOM, combatant commands, service headquarters, and service components all have the ability to analyze RFFs and make force recommendations to the SECDEF based on current and future force availability and current and projected readiness. The process is currently being used primarily to source

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11 Official messages are commonly referred by the acronyms alone, which are DMS (Defense Message System) and GENSOR (General Service).
13 Ibid., 45.
U.S. forces. It has not been used to plan and execute force deployments for a new major 
operation—more specifically, a new operational design.

Even though the RFF process has evolved over the years, it is missing critical 
information, and this is the key difference between the RFF and the TPFDD processes. The 
actual RFF normally identifies specific units by name; however, it does not provide the who, 
where, when, and how details that planners and commanders need to design the deployment 
plan. RFFs do not provide the exact numbers of passengers, along with their associated 
equipment; they do not provide the point of origin, POE or POD; they do not provide the 
exact dates that the forces must be moved; and they do not provide the specifics of how the 
forces should be moved. Since RFFs are submitted in GENSER message format vice a 
database, they cannot be run through modeling and simulation programs to determine 
optimum sequencing and synchronization. Therefore, the RFFs do not adequately take into 
account the implications that will be discovered only upon execution of the deployment. 
Additionally, since RFFs are submitted and approved by GENSER message, there is no 
automated means to track the status of the RFFs; this necessitated that component commands 
develop a means to track the status of RFFs, which was an exhaustive undertaking that often 
duplicated existing procedures.14

Analysis

The current TPFDD process had its roots established in the late 1980s, when it was used 
in support of contingency planning for Operation JUST CAUSE,15 as well as force 
deployment planning conducted in support of United States Central Command’s

(USCENTCOM) Operations Plan 1002-88. Though used during Operation JUST CAUSE planning, the Supported and Supporting Commanders decided, for various reasons, not to deploy forces using the TPFDD. It should also be noted that during the late 1980s and early 1990s, deployment planning using JOPES and a TPFDD were still immature processes for the DOD, and neither had been tested in real world contingencies until Operation DESERT SHIELD in 1990.

During Operation DESERT SHIELD, deployment execution with a TPFDD received mixed reviews; however, the end result is generally considered a success. As previously mentioned, planning in JOPES and with a TPFDD was a relatively new process, using a new computer database system, and had not been tested in a real crisis. Thus, numerous problems were encountered when deployment execution began. First of all, manipulating the JOPES database (i.e., the TPFDD) was an excruciatingly painful and tedious process, especially considering the computer and software technology at the time, and it required substantial training, which was lacking at the time. To many planners and leaders, executing the deployment with a TPFDD simply was not responsive and flexible enough in a fluid, fast paced environment. Early in the deployment the USCENTCOM Commander frequently changed unit priorities in the force flow, but the changes could not be updated quickly enough in the TPFDD. Additionally, information was frequently input into the JOPES database with multiple errors. Errors included incorrect passenger numbers, inaccurate equipment information, wrong POEs/PODs, and even the scheduling of units for movement.

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18 Ibid., 21-25.
19 Ibid., 22.
that no longer existed. Consequently, there was a lack of visibility of forces (both troops and equipment), which made it extremely difficult to schedule strategic transportation assets (airlift and sealift) and estimate force closure in the theater of operations. This resulted in airplanes unexpectedly arriving at airports, too many airplanes arriving at airports, too few airplanes arriving at airports, the wrong type of airplanes arriving at airport, units not prepared when airplanes arrived, and the list goes on. The CENTCOM Commander did not have totally accurate visibility of his force composition at any given time during the deployment. At one point, General Schwarzkopf stated, “since 16 January our personnel strength [in theater] has increased by 71,800 and now stands at 525,920. I’m concerned that 20 percent of that increase [14,360] was not in the TPFDD and therefore unplanned and invisible to this headquarters.” At the beginning of the deployment, planners and leaders had little assurance that the new process worked.

Ultimately, USTRANSCOM and USCENTCOM were able to work out procedures that enabled JOPES and the TPFDD to effectively support the deployment. While there were many lessons learned, two are especially critical. First, training was paramount and it was seriously lacking; because this was a relatively new system, the lack of familiarity throughout the DOD arguably caused the majority of problems. Second, regional combatant commanders needed to take a greater responsibility for deployment planning and execution, especially early in the process. To address these deficiencies, USTRANSCOM deployed a team to assist USCENTCOM planners at McDill Air Force Base in the use of the JOPES database, deployed a team into the area of operations to improve coordination, accelerated

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20 Ibid., 21-23.
21 Ibid., 22.
22 Ibid., 24.
23 Ibid., 25.
the development the next JOPES database version, and accelerated the development of a transportation flow and analysis system in order to provide quicker force closure estimates. For USCENTCOM’s part, a greater degree of discipline was directed with regards to executing the deployment with the JOPES database, which ultimately facilitated using JOPES as it was intended. By addressing these critical deficiencies, both USCENTCOM and USTRANSCOM gained greater visibility and control throughout the remainder of the deployment. USCENTCOM’s Director of Operations concluded that they “would never have been able to achieve the remarkable success of Operation DESERT SHIELD without JOPES….JOPES appears now to have come of age and will, in the future, be an essential part of all deployment operations.”

The RFF process, as previously mentioned, took root during USCENTCOM’s OIF planning late in 2002. It was during this timeframe that USCENTCOM presented the SECDEF a TPFDD to support OIF that consisted of over 300,000 military forces and associated equipment. The SECDEF was concerned that by approving the TPFDD, he would be limiting the President’s diplomatic options by starting the deployment of troops before the New Year. An underlying assumption was that once the TPFDD of approximately 300,000 troops was approved, the valve would not be turned off until the bucket was empty. That is, all troops and equipment would deploy to the theater of operations and the deployment would have ended once the last soldier, airman, sailor or Marine identified in the TPFDD arrived in theater of operations. The SECDEF viewed the TPFDD process as archaic and he did not want to use this approach; as a result, he decided to do away with the TPFDD process

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24 Ibid., 24-25.
25 Ibid., 24.
26 Ibid., 25.
28 Ibid., 233.
because he wanted the ability to personally decide which forces would deploy to the theater of operations and when they would deploy.\textsuperscript{29} In its place, the SECDEF implemented the RFF process, which he believed was more flexible and responsive, and it allowed him to meter the flow of U.S. forces by opening and closing the valve as he deemed necessary, as well as actually adding or deleting U.S. forces. The Army equated this process to “pulling cogs at random out of a machine.”\textsuperscript{30} In short, the RFF process severely limited the operational commander’s ability to determine the deployment planning and execution. Milan Vego points out that “In practice, operational and even the most basic tactical decisions are all too often made by the highest political or military-strategic leadership…more often than not they do a lot of damage.”\textsuperscript{31} This was arguably the case in the decision to deploy forces with the RFF process, where the SECDEF decided when forces of his choosing would deploy—the implications were far-reaching.

During 2002 and 2003, over 100 RFFs were submitted for approval to support OIF. RFFs routinely took from one week to several weeks to be approved by the SECDEF, whereby a DEPORD would be issued, and often with modifications. Sometimes a single RFF would be approved and one DEPORD issued; on other occasions several RFFs would be grouped and a single DEPORD was issued for the entire grouping. To make matters worse, the bureaucratic approval process caused many DEPORDs to be signed with a required delivery date into the theater of operations that had already passed.\textsuperscript{32} In turn, this caused significant problems with the sequencing of forces and allocating precious strategic resources.

\textsuperscript{30} James Fallows, "Blind into Baghdad," \textit{The Atlantic Monthly} 293, no. 1 (Jan/Feb 2004): 64.
\textsuperscript{32} Gen John W. Handy, Commander, U.S. Transportation Command, “An Oral History,” interview by Dr. Jay H. Smith and Lillian Nolan, (Scott Air Base: June 2007).
transportation assets. The former USTRANSCOM Commander stated in an interview that, “The challenge was getting enough deployment orders approved so that we had some time, 30 to 45 days, to plan the transportation assets against these sequential and simultaneous deployment orders, and negotiate with CENTCOM on what order we could move them.”33 In addition, it is by detailed analysis and modeling force requirements in a TPFDD that USTRANSCOM planners can determine the amount of strategic lift assets that are required to move the force in a given period of time. Arguable, the force requirements that were laid out in the original OIF TPFDD, which planners continually modified even though the RFF process was being used, provided USTRANSCOM leadership the framework to determine that activating the Civil Reserve Air Fleet Stage I was necessary to support USCENTCOM’s plan.34 The reality was that the RFF process was not more flexible and responsive because every RFF had to be analyzed in detail by planners—the who, when, where and how had to be answered in order to execute the deployment—and this took a lot of painstaking time. Even more to the point, the operational commander did not know exactly what forces would be approved, nor when they would arrive in the theater of operations.

Another unintended consequence of the RFF process was the degradation of logistics capabilities that were required to support the deploying forces.35 Logistics units were a favorite target for cutting or moving later in the force flow. For instance, the Army’s Theater Support Command gets a tremendous amount of logistics capability from their mobilized reservists who run the airports and seaports. Many of these reservists were activated later

33 Ibid.
34 Civil Reserve Air Fleet (referred to as CRAF) is a partnership between the commercial airlines and DOD created to ensure that sufficient airlift is available for deployments in the event of contingencies or war. Source: U.S. Transportation Command; this is based on the author’s personal experience while assigned as a planner in the J-3, U.S. Transportation Command from August 2001 – June 2004.
35 Gordon and Trainor, Cobra II, 99.
than initially planned, and their late arrival into the theater of operations hampered the overall force deployments.\(^{36}\) In addition to the soldiers, material handling equipment was in short supply, which was essential to expeditiously offload airplanes and ships and to clear marshalling areas. Likewise, personnel and equipment sequencing was adversely impacted. In nearly all instances combat troops were flown into the theater of operations and their combat equipment (e.g., tanks, trucks, artillery, helicopters, etc.) was transported by sealift, which obviously takes much longer to transport. Synchronizing the two so that they link-up simultaneously is another one of those painstaking tasks for planners that cannot be ignored. For the Marines, the RFF process had the effect of de-synchronizing combat and combat service support (CSS) units with their equipment. Marine Corps heavy equipment had to be off-loaded from ships before associated drivers arrived. In many instances, Marine units were scrambling just to find drivers who were qualified to drive equipment off ships.\(^{37}\) Additionally, CSS units that provided much needed logistics support to combat units arrived later than planned and this affected the Marines throughout the combat phase of the operation.\(^{38}\) Insufficient logistics capabilities, especially at the ports of debarkation, had the domino effect of slowing RSOI operations. In turn, this slowed the deployment because troops and equipment became clogged at the port.

The disapproval or delay of Army units that resulted from the RFF process had other unintentional outcomes. While some argued that CENTCOM never really had a plan for phase IV operations (post-combat phase),\(^{39}\) others argue that had entire Army divisions not

\(^{36}\) Ibid., 99.

\(^{37}\) LtCol Pat Kelleher, interviewed by author, 14 October 08. LtCol Kelleher served as Operations Officer, 2nd Transportation Support Battalion, 2nd Marine Logistics Group during OIF I.


\(^{39}\) Gordon and Trainor, *Cobra II*, 138-140.
been disapproved or delayed, there would have been sufficient forces available to handle phase IV operations.\textsuperscript{40} General Shinseki, former Army Chief of Staff, was especially critical of the removal of forces from the TPFDD; in his view they were essential to stabilize Iraq after phase III operations.\textsuperscript{41} Another high-profile aspect of the war, Abu Ghraib, felt the unintended impact of the RFF process. A commission that was overseen by former SECDEF James R. Schlesinger determined that the disjointed deployment process separated military police units from their equipment and in turn prevented critical training prior to executing their mission; also, military police units arrived in theater tumultuously, in no specific order, and without equipment.\textsuperscript{42} Conversely, the synchronization of troops (transported by air) and their equipment (normally transported by sealift) is a fundamental underpinning of the TPFDD process. The lack of training and equipment was determined to be a contributing factor in the Abu Ghraib prison scandal.

**Conclusions**

While it is clear that the TPFDD process suffered initial lumps during Operation DESERT SHIELD, lessons were learned—specifically, the importance of training, as well as the necessity for command involvement in the deployment process. As a result, processes and procedures were improved, and systems have been updated. All of this continues today and the current JOPES process is no exception. Accordingly, the Adaptive Planning and Execution (APEX) System is systematically being implemented throughout the DOD and is

\textsuperscript{40} Fallows, “Blind into Baghdad,” 64-65.
\textsuperscript{42} Gordon and Trainor, \textit{Cobra II}, 100.
planned to eventually replace JOPES. APEX is focused on improving contingency and crisis planning by enabling planners to conduct parallel collaborative planning among supporting and supported commands, subordinate command elements, and across the JPEC. In respect to conducting deployment planning, there is no doubt that planning in the JOPES database is a significant undertaking that requires considerable time and coordination, as well as extensive training. New programs, such as the Collaborative Force Analysis, Sustainment and Transportation (CFAST) system are intended to replace the traditional JOPES database that is used to build a TPFDD. CFAST, a modern, web-based collaborative campaign building environment, is envisioned to be more user-friendly and responsive than the JOPES database, that provides deployment planning and analysis capability currently resident in the TPFDD process. While CFAST is intended to replace the established JOPES database, the underlying data that is resident in a TPFDD will still be resident in CFAST; the modeling capabilities (some or all), if developed as planned, will be resident in CFAST vice being stand along programs; and, the force planning, sequencing and synchronizing will still take place, but only faster. In essence, using CFAST will be analogous to a TPFDD process on steroids—faster and with more capabilities.

A deployment planning and execution process must sufficiently support an operational commander’s ability to design and execute a newly assigned major operation or campaign—in this regard, the RFF process used for OIF is considerably lacking. The RFF process does not consider a campaign plan on the whole; it does not consider the cause and effects, as well as the timing and placement of forces to achieve the desired effects; it does not provide

44 Ibid., 6.
45 Chairman, U.S. Joint Chiefs of Staff, *Adaptive Planning Roadmap II*, 89.
overall visibility of the force and movement requirement. One only needs to consider the impact of insufficient logistics enablers to conduct port operations during OIF, the timing and lack of synchronization of troops and equipment that may have contributed to events at Abu Ghraib, or the seriously inefficient use of strategic airlift assets at the outset of Operation DESERT SHIELD. Additionally, the RFF process does not have the ability to model and simulate various courses of action and to determine if, for example, there are choke points in the deployment process, limited transportation assets that must be considered, or insufficient forces to accomplish a specific task. Conversely, the TPFDD process provides tools for the operational commander to choreograph and war game his force flow—through modeling and simulation—into into the theater of operations and thereby aide in visualizing the unfolding of events. The TPFDD planning process can help determine, for instance, if adequate logistics enablers will be available in the right location and at the right time to order to ensure the timely offload of equipment for the entire force. In summary, the TPFDD process unveils nearly all of the details that can stop, slow or accelerate force deployments and, therefore, provides planners and commanders the tools necessary to make informed decisions. For these reasons, the TPFDD process is superior to the RFF process that was used for OIF, especially when planning future operations or campaigns.

A key difference between the processes that must be noted is the basic assumption that forces will be available. The TPFDD process generally assumes that specific forces will be available for planning and execution. The maturation of the RFF process into the GFM process does not make this assumption primarily due to the fact that current operations in Iraq and Afghanistan have committed a significant portion of U.S. forces. This is one reason that the RFF process is being used today. However, it is being used primarily to source
forces, essentially swapping forces on a one for one basis, and this requires little (if any) application of operational art. In this respect, the RFF process is beneficial to source limited U.S. forces that are available (or projected to be available) for potential operations. It is essential that the RFF process identify forces for regional combatant commands to begin detailed planning. However, detailed force deployment planning and execution must take place in the TPFDD process or the future APEX process. The RFF process alone, as used during OIF, is not adequate. The balancing act for GFM/JFP and the JPEC will be to source forces and allow sufficient time for operational commanders to conduct detailed planning—this is the goal of APEX.

Regardless of the deployment process, one thing is clear—it must enable the operational commander to achieve his desired end-state through the application of his operational or campaign design. This is done by sequencing tactical events that are designed to achieve intended effects and subsequently connecting these events to other events in the campaign design.\(^{46}\) Clausewitz describes this as “planning and executing these engagements themselves, and of coordinating each of them with the others in order to further the object of the war.”\(^{47}\) In order to achieve these effects, or execute these engagements, where and when force will be applied must be part of the campaign design. If one accepts this notion, then one should accept that “only the operational commander can properly plan and execute deployment for a campaign or major operation.”\(^{48}\) It is then, as described in joint doctrine, the operational commander’s responsibility to identify forces, plan and sequence their arrival in the theater of operations at the right times and right locations, effectively execute RSOI, ensure adequate resources are available through all phases of the operation, and ultimately

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\(^{47}\) Clausewitz, *On War*, 128.
achieve the desired objectives.\textsuperscript{49} This was a lesson learned during Operation DESERT SHIELD; however, it appears that this lesson was ignored or forgotten during OIF. The SECDEF assumed much of the responsibility for determining which forces would deploy and when they would deploy; this can be directly linked to the RFF process, where only the SECDEF can approve RFFs. The TPFDD process, in contrast, places this responsibility squarely in the operational commander’s hands.

**Recommendations**

The analysis and conclusions presented above highlight the significant differences between the TPFDD and RFF processes. In today’s environment, where U.S. forces are committed in two major operations, there are benefits to both processes. However, before undertaking future major operations, the following recommendations should be considered.

First, the TPFDD process (or the future APEX process) should be used to plan and execute force deployments. Improvements in systems and processes, vis-à-vis APEX, will continue to address previously identified deficiencies and make deployment planning and execution more responsive and flexible. The RFF process, as used during OIF, simply does not have the wherewithal to support major operational deployments.

Second, the RFF (or GFM) process should be used in conjunction with the TPFDD process, but only to source forces. Once sourcing has been completed, deployment planning and execution for the forces should be conducted using the TPFDD process.

Third, once the operational commander has been allocated forces to accomplish his objectives, he must be given full latitude to conduct deployment planning and execution in a

manner that supports his operational design. Though this recommendation is not new, the RFF process used during OIF serves as a reminder that this should be reemphasized.

**Summary**

This analysis has shown how both the TPFDD and RFF processes began, along with their use in major operations. While the RFF process may appear to be the quicker and more flexible of the two procedures, the substance of this process is immensely shallow for planning major operation or campaign deployments. There simply is not enough detail provided to thoroughly analyze all possible deployment courses of action, nor to anticipate the cause and effect of events that may ultimately determine the outcome of an operation or campaign. The TPFDD process, on the other hand, provides substantial planning detail and tools that are critical to designing a successful operation or campaign plan. While both the RFF and TPFDD processes will likely evolve into future APEX processes, the underpinnings of the TPFDD process will remain absolutely necessary to effectively plan future operations.
Bibliography


