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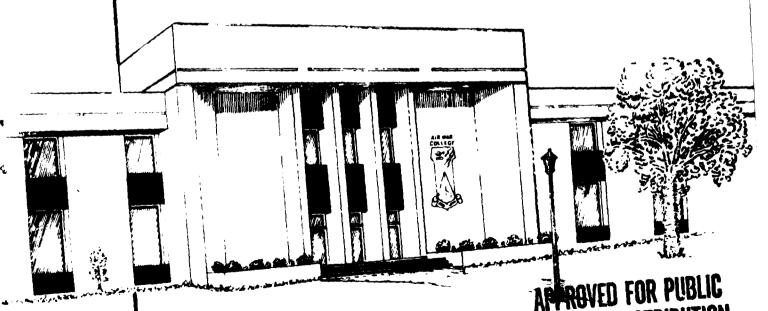
RESEARCH REPORT

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THE AIR FORCE NATIONAL GUARD AND THE AIR FORCE RESERVE: POINTS TO PONDER FOR THE FUTURE

By COLONEL JOSEPH W. CHAN, LIEUTENANT COLONEL RALPH P. ANDERSON, LIEUTENANT COLONEL ALAN A. BLOMGREN, AND LIEUTENANT COLONEL ALBERT J. LEFKO



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AIR WAR COLLEGE AIR UNIVERSITY

THE AIR NATIONAL GUARD

A N D

THE AIR FORCE RESERVE:

POINTS TO PONDER FOR THE FUTURE

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Joseph W. Chan, Colonel, USAF Ralph P. Anderson, Lieutenant Colonel, ANG Alan A. Blomgren, Lieutenant Colonel, USAFR Albert J. Lefko, Lieutenant Colonel, USAFR

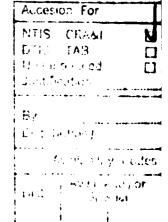
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FULLILLMENT OF THE RESEARCH REQUIREMENT

Thesis Advisor: Colonel Larry K. Arnold

May 1997



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AIR WAR COLLEGE RESEARCH REPORT ABSTRACT

IITLE: The Air National Guard and the Air Force Reserve:

Points to Fonder for the Future

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Ralph F. Anderson, Lieutenant Colonel, ANG

Alan A. Blomgren, Lieutenant Colonel, USAFR

Albert J. Lefko, Lieutenant Colonel, USAFR

A review of the historical origins of the Air National diand and the Air Force Reserve and a look at their current about the increduce a discussion of the factors which arrect the Air Reserve Forces. Implications of force mix discussion and suggestions for improving the Air Reserve

BIOGRAPHICAL SKETCHES

than 4700 hours flying the OV-10, C-141. C-5, and FC 10 sincraft. He is served as a staff officer at Headquarters. Military Airlift Command, and at the Air Staff, and was commander of the 30th Military Airlift Squadron at McGuire AFB. New Jersey. His most recent assignment was at Headquarters. Air Force Reserve, as the Assistant Deput Chief of Staff for Operations. Colonel Chan is a graduate of the Squadron Officer School. Class 748, the Air Command and Staff College. Class of 1978, and the Air War Coilege.

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Leistona and Staff College by correspondence and of command and Staff College in residence as a member of constant of 1987.

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Officer Professional Military Education Classes 87-02 and 67-03 for their participation in this research effort. These Air National Guard and Air Force Reserve officers spent two weeks of intensive study at the Air War College. In their spare time, they helped us by identifying current issues, clarifying our thoughts, and giving us fresh ideas on how to improve the Air Reserve Component of the Total Force.

LIMITS OF THE PAPER

The Air Reserve Forces (ARF) consist of the Air Hational Guard and the Air Force Reserve. In this paper, we il look specifically at those portions of the ARF that have the highest priorities in terms of personnel, irraining, equipment and general readiness — ARF units and insividual Mobilization Augmentees (IMAs) of the Selected Reserve. Once mobilized, these are the portions of the ARF that would have the most immediate impact augmenting the entire Air Force during the initial stages of any future conflict.

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INTRODUCTION

In a fiscally unconstrained environment, most military planners would probably build the armed forces solely with active duty units because of their inherent flexibility and high state of readiness. The United States (US), historically insulated from world power struggles by its unique geography, has traditionally relied on conscription and reserve forces to meet its wartime manpower requirements. Since World War II, the US has carried a large part of the military burden for the Free World and has maintained a large active duty military force. Since the end of the draft and in the face of increasing defense spending, the US has developed the concept of the Total Force where reserve forces are kept at high levels of readiness to meet some peacetime military demands as well as providing rapid augmentation in times of conflict. The purpose of this paper is to investigate the role of the ARF in this current fiscally constrained any ironment, and to provide policy-makers with points to monder when they consider changing the structure, roles and mustions of the APF. To do this, we will first review the missionical background and the lessons learned over the years that have contributed to the development of the ARF. Herb, we II look at boday's ARF structure and some factors that Affect its capabilities. Finally, we ll look at some

implications of force mix changes and proposed improvements on tomorrow's ARF.

HISTORICAL PERSPECTIVES OF THE

them today can be traced from colonial days when the citizen soldiers defended their rights and property with their own weapons. In the course of the growth and development of the United States into a superpower, Guard and Reserve forces were also evolving into their present-day role. The Air National Guard traces its origins to November 1, 1915, with the establishment of the 1st Aero Company in New York City. "It proved to be a precursor of the 2nd Aero Company, N.G., N.Y. that was organized in Buffalo the following year. The two New York Aero Companies were called into Federal Service in July, 1916, and stationed at Mineola Aviation Field, Long Island." (1:521)

The United States Air Force Reserve traces its origins to June 1916 when the National Defense Act strengthened the Aviation Section of the Signal Corps and authorized a reserve corps of 2,300 officers and men. The first organized air reserve unit, designated the First Reserve Aero Squadron, was formed in May 1917, and it and a sister unit were ordered to active military service soon after the United States entered World War I. (2:1)

The National Guard Observation units and the Air Corps

Reserve almost became non-existent after World War 1. It was only through dedicated efforts of local groups and early air pioneers such as Billy Mitchell that any form of existion units existed prior to World War II. "On the event of WW II, there were 1,500 Army Air Corps reserve priots on extended active duty. These, plus 1,300 non-rated officers and 400 enlisted men, provided the Army Air Corps a small but skilled reserve augmentation in the critical early days of the war." (2:1) In addition, 29 National Guard Observation Squadrons were mobilized and contributed men and equipment.

After World War II, Army Air Corps Leaders
developed the plans to reestablish separate Air Guard and
Air Force Reserve units. Their insistance on having Air
Corps-affiliated units evolved into a document entitled,
"Approved War Department Policies Relating To Postwar
National Guard And Organized Reserve Corps," dated October
13, 1945. The document outlined the following:

- 1. Basic Assumptions
- 2. Mission

- 3. Strength. composition, organization and distribution,
 - 4. Personnel
 - S. Training
 - a. Instructors
 - 7. Administration
 - 8. State and federal responsibility

In all, the document was very thorough and provided an excellent outline of the structure of the Air Reserve Forces. Key among its basic assumptions were:

... no unit should be allotted to the Regular Brmy, other than required for its peacetime mission, providing it can be equipped, trained, and made ready for its mobilization mission in time of peace, at less expense and more advantageously, in the National Guard or the Organized Reserve Corps.

-The army organization will continue to be predicated on the three Major Forces, namely the Army Air Forces, Army Ground Forces, and the Army Service Forces.

-The target established by the overall troop basis for the Army of the United States automatically determines the personnel strength of the Active Reserve as that balance remaining after deduction of the combined strength of the Regular Army and the National Guard.

-The War Department troop basis will establish the number and types of organizations and units required for an over-all balanced force. The types and numbers of organizations and units of the Active Reserve will be determined by subtracting the number of such organizations and units allotted to the Regular Army and the National Guard from the War Department troop basis. (3:1)

Based on this, the Chief of the Guard Bureau sent a letter dated February 9, 1946, to the Adjutants General of oll states, Hawaii, Puerto Rico, and the District of Columbia setting forth "... the guiding principles to be followed in organization of the Air Arm of the National Guard..." (4:1) In the letter, much of the pattern of composition, organization and distribution was established for the post-war Air National Guard. The basis for each state's National Guard manpower strength and number of flying units was the number of males between the ages of 18 and 35. (3:6) Units were generally located in the communities designated by the individual states and frequently reflected local interest or political pressures.

The Air Force Reserve was originally conceived

cololy as a filler force, providing the difference between total War Department troop strength requirements and what the Air Guard units could provide. As a rule, its units upon co-located on active duty installations.

The basis for the types of flying units to be assigned was outlined in an appendix to an organization plan for the Air National Guard published on November 8, 1945. Of note was the concentration on fighter and light hombardment squadrons; these were deemed to be the most soutable missions for the Air Reserve Forces. Transport squadrons were judged to be unsuitable because of the peacetime mission. Many of the same ideas underlined the establishment, organization and equippage of the Air Force Reserve units. (5:1)

Training for the new units was to be conducted by the respective organizations "...under the supervision of the Commanding Generals of the appropriate Major Forces...in accordance with the policies prescribed by the War Department." (3:17) Training was accomplished by active duty "instructors" assigned to the units for three year periods. (3:20) They exercised no command over the units, being only advisors, but were responsible for explaining War Department standards for training, administration and operation.

With the close of World War II, the farthest thing from the minds of the American people was mobilization of

Reserve forces. Yet in the next two decades, this would occur six times. The six occasions were the Korean War, the Berlin mobilization, the Cuban missile crisis, the capture of the U.S.S. Fueblo, Southeast Asia, and the national postal strike of 1970. Of these six mobilizations, the postal strike and subsequent mobilization of Air Reserve postal and courier groups will not be discussed since this was a non-combatant call-up.

In 1950, North Korean armed forces invaded South This action led to the largest mobilization of US Seserve personnel since World War II. Over 148,000 Air Fonce Reserve and 46,000 Air National Guard personnel were recalled to active duty either individually or with units. During the first year, almost 75 percent of the total to be mobilized were on duty. As reports were gathered evaluating the mobilization, many criticisms were levied against the support functions of personnel and administration. Units were able to assemble their personnel within reasonable time frames, but getting them processed for active duty became a nightmare of lost or incomplete personnel and medical records. To investigate the problems encountered during the call-up, a committee was organized under the leadership of Brigadier General Clyde H. Mitchell. The committee concluded

that the greatest determent to a satisfactory recoll had been the condition of the basic records of the reservists. This inadequacy caused many difficulties, among which were the inability to locate reservists.

inability to recall in best skill, lack of knowledge or probable physical conditions, and a minimum of information on changes in reservist's personal affair . (6:85)

The Air Force set about to remedy the lessons
learned during the korean call-up. Congress greatly
societated this effort by passing three laws: (1) Armed
Forces Act of 1952, (2) Reserve Officers Personnel Act of
1954. and (3) Reserve Forces Act of 1955.

The armed Forces Reserve Act standardized pay and training categories and established Ready, Standby, and Retired achilication categories. Patterned after the Officers Personnel Act of 1947, the Reserve Officers Personnel Act ostablished in law a permanent system of promotion for reserve officers. The Reserve Forces Act doubled the legally permissible size of the Ready Reserve, imposed with sanctions the obligation to train, and authorized the recruitment of non-prior service personnel into the Reserves. (6:95)

Changes in the reserve program continued through the 1950s, and with the turn of the decade, the Air Force gave its winning commands a more involved role in training and inspecting the ARF. (6:98)

The 1961 Berlin mobilization and subsequent show of corresponded more unique lessons to be learned. In a faction to the large call-up of Army Reservists, the factive file Force uses hard-pressed for additional airlift and placed great emphasis on the embryonic (-124 air bransport units of the OBF. A grash program to equip, their, man and recall Reserve C-124 crews strained all resources of Active and Reserve manpower and material.

With Headquarters Air Force assistance, the Reserve forces were able to transition to C-124s and be declared operationally ready in time to support the President's Berlin policy.

The Air Force Inspector General, Lieutenant General William H. Blanchard, evaluated the recall of the ARF to octive duty and recommended several changes to improve the effectiveness of the Reserve forces. His recommendations were:

- 1. Commanders and key staff should be on full-time duty and meet Regular Air Force qualification standards for appointment and promotion.
- 2. UMDs (Unit Manning Documents) should be standardized for comparable organizations within Reserve forces and be made appropriate for operation as an active duty wing.
- 3. Positions of Air Force advisors to Reserve Forces units should be completely screened and fully manned with selected, qualified persons.
- 4. Air Force support and supervision of aircrew and unit training should be increased to assure preparedness of the Reserve forces.
- 5. Air National Guard units should be equipped to provide adequate support for contingency operations commensurate with their assigned missions. (6:141)

A second and parallel study into the problems encountered during the Berlin crisis was conducted by Major Seneral Robert E. L. Eaton, Assistant Chief of Staff for Heserve Forces. General Eaton's study "...was to identify problems and recommend corrective actions to eliminate Their recurrence in future recalls. His staff was particularly interested in problems in the areas of unit safer tiveness, personnel, operations, supply, training,

facilities, requests for delays or deferrals and dependent processing." (a:141) Again, problems within personnel processing surfaced as the major irritants during the recall. Probably the three greatest problems of the Berlin recall were: (1) units converting to C-124s; (2) unit members being unfamiliar with directives in maintenance and personnel; and (3) immediate reorganization of units after recall, which was also a big lesson of the Korean call-op.

The Cuban missile crisis recall of the ARF came less than 18 months after the Berlin recall and lasted month of the December 29, 1962. Many of the lessons learned in previous mobilizations had already been put to spood use. For example, problems noted in personnel processing were drastically reduced. A review group composed of 79 officials from throughout the Air Force identified several problem areas requiring further Air Staff review. They were:

1. Tow level of manning

COCCESSOR DESCRIPTION DESCRIPTION

- 2. Short ges of Pilots
- 3. Insufficient Active advisor manning
- 4. Inaccimate reporting of unit readiness
- 5. Security of classified materials
- 3. Shortages of equipment
- 2. Improper documentation of training
- %. Fow readiness of aerial port units $\pm 6:131\pm 182$)

The overall conclusion, though, was that the AFF had concentsfully completed all assigned missions. General Curtis E. 'eMaz, then Chief of Staff of the Air Fonce reflected by a catisfaction by noting, "This demonstration

of responsiveness of the Air Reserve Forces underlined the importance of maintaining and further supporting the readiness of this vital element of the Air Force capability." (6:184)

It would be just six short years later that the ARF would be called to assist active duty forces who were already engaged in Vietnam. In January, 1968, North Eurea captured the U.S.S. Pueblo. Until that time, President Johnson had not mobilized the Guard and Reserve forces in spate of the heavy military commitment in Vietnam. This incident gaused the President to mobilize selected ARF units and send them to korea, Japan, and, to a leason extent, Europe. Initially, only C-124 airlift units were recalled; but before the Pueblo incident wound down and the US withdrew from Vietnam, additional Guard and Reserve forces were mobilized and assigned throughout Southeast Asia. Upon demobilization of these forces, the Continental Air Command (the forerunner of today's Air Force Reserve) subsitted a report to the Air Staff, stating:

Although it appears many problems arose during the 1968 mobilizations, the general consensus of this headquarters was that these were the most successful mobilizations experienced by the Air Force Reserve during recent times. (6:237)

The lessons of past mobilizations have been put to good use, but not overnight. Today's Guard and Peserve world continually train not only for their wartime tasting but also on how they will mobilize their personnel and

Mulphent when recalled. The current mobilization process
inculves everyone from the President and the National
Security Council, through the Secretary of Defense and
Joint Chiefs of Staff, down to the individual Guard and
Preserve unit. The coordination and planning procedures are
complete. Continual testing and evaluation of the alert and
the all systems will aid in minimizing problems in future
and distinations.

TODAY S ARE STRUCTURE

In 1970, Secretary of Defense (SecDef) Melvin Laird someon ad the Total Force Concept, a major reversal of policy whereb, the Reserve components, rather than the duaff, became the initial source of augmentation to the section force. (2:14) This capped an evolution over the care which saw the Guard and Reserve change gradually from a force actually held to reserve, having substantial time to applica and train, to a force constantly ready and sociable to republic reinforce the Active components. (2:3) In 1973, SecPet times Obligationary proclaimed the lotal First Solid, internating the Active, build and Reserve only industrial major. Consequently, found and Reserve only industrial major, for equality, found and Reserve only industrial major. Consequently, found and Reserve only industrial to each the same reinfiness standards as the factor of the first state that the second reserve that the assume that they

training and manning policies. (2:14) In 1982, Sochef Caspar Weinberger issued a policy memorandum to the three Service secretaries and the Chairman of the Joint Chiefs of Staff, directing that high priority units of the Guard and Reserve must have the equipment to perform their mission. Furthermore, Active and Reserve component units deploying at the same time should have equal claim on modern equipment. (8:14)

Today's ARF is the world's fifth largest air force, employing more than 193,000 people and possessing more than 2100 aircraft. (9:32; 10:189; 11:190; 12:86) Figure 1 shows the types of aircraft flown by the ARF, while Figure 2 indicates the magnitude of ARF contributions to the Total Air Force. The Active Air Force provides the ARF with 1ts wartime tasking and the training criteria and objectives required to accomplish that tasking. To measure ARE readiness, the Active Air Force does the inspecting and evaluating as well, using the same standards throughout the Total Force. This close integration of the Active and ARE also extends to the preassignment of units and individuals to Active force gaining commands or functional areas with which they will serve when mobilized. (13:19). Because the Air Force recognized the potential of the Total Force Concept during the early 1970's and took immediate and continuing stops to implement the policy, today a ARE is selter equipped and more qualified to fight than the

Peserve components of the other services. 17:257)

FIGURE 1.

ARE AIRCRAFT

TYPE	NUMBER
A-7	347
A-10	204
94-37	53
F-4	794
6-15	20
F-16	51
F-106	78
r-5	
C-22	
C-12Z	4
C-130	372
C-131	26
F7-135	125
T-33	40
T-39	
T-43	
H-1	
H-3	
TOTAL	

⁽Current as of 30 September 1985) (14:48)

FIGURE 2. ARE CONTRIBUTIONS TO THE TOTAL FORCE

ARE FLYING UNITS %	OF
TOTAL A	IR FORCE
Aerial Spraying Capability	100
CONUS Strategic Interceptor Forces	
Tactical Airlift	
Tactical Reconnaissance	
Air Rescue/Recovery	37
Tactical Fighters	
Special Operations	
Westher Reconnaissance	
Tactical Air Support	
Aerial Refueling/Strategic Tankers	
Support Aircraft	
Strategic Airlift Aircraft	4 7
AIRCREWS (Associate Program)	
Strategic Airlift	5o
Tanker/Gargo	
Aeromedical Airlift	
ARE NON-FLYING UNITS	
Aircraft Control and Warning Units	72
Combat Communications Units	
Aerial Fort Units	
Combat Logistics Support Squadrons	* .
Engineering Installation Units	
Tactical Control Units	
Strategic Airlift Maintenance Fersonnel	
_	
Civil Engineering FRIME BEEF	
Aeromedical Evacuation Crews	
Medical Service Personnel	
Weather Units	

*Current as of 30 September 1985) (14:48)

OURRENT FACTORS OFFECTING THE ARE

DEMOGRAPHICS. One area of growing concern is demographics, or simply, what will the "baby bust" era do to the structure of the Total Force? Many recent studies of US population trends indicate that there will be a severe recruiting crunch in the late 1980s and early 1990s as the pool of sligible (18 to 24 year old) males declines by 15 percent from mid-1970s levels. (15:11) The number of males reaching the age of 18 peaked in 1980 at 2.13 million and will decline to 1.6 million by 1995. (16:21) In 1977. the armed forces recruited 1 out of every 5.6 18 year old males, in 1985, they required 1 out of every 4.6, and by 1995, they will need 1 out of every 4. (16:21)

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PROCESS STATES

The all volunteer force has had a dramatic effect on the ARF, most of which has been seen as positive. In the 1980s, the ARF recruiting mix was 70 percent non-prior service (NPS) individuals and 30 percent prior service endistments. When the draft ended, this mix almost recorsed, going to 35 percent NPS versus 65 percent prior service. This came just as the Total Force Concept was adopted and the ARF was receiving modern equipment and more complex missions. The influx of active duty experience in the saidle of this changeover was a tremendous boon to the

ARF and had a lot to do with its ability to achieve and maintain high levels of readiness. This recruiting mix has tapered off to a 45/55 percent MPS/prior service mix since 1978. (17:51)

As we approach the 1990s, the ARF has a multifaceted recruiting problem. If active duty retention remains high and fewer people leave the service prior to retirement, there will be increased demands on NFS recruiting for the ARF. The ARF also has a substantial aging problem in its force caused by the high prior service recruiting of previous years and by the manpower stability within ARF units. For example, while the Active Air Force has approximately 4 percent of its members between the ages of 41 to 45, the ARF has over 12 percent in this same age group. (18:28,34) As this large group reaches retirement age, this will place even more demands on recruiting. Finally, the programmed growth of the ARF itself dictates increased recruiting efforts. Combine these with the "baby bust" problem previously mentioned, and it is apparent that the Total Force faces a requirement to recruit even more people from a dwindling pool that is already heavily fished.

A related problem is the fact that recruiting is different for the Selected Reserve. While the Active component can use the entire US as a recruiting base, the ARF generally recruits at the unit level from the local

area. Some ARF units may find that the demographics of their local areas have changed since those units were established in the post-World War II era. The US has experienced tremendous population shifts toward the "Sun Belt" in the last 40 years, and many ARF units may discover that such shifts have eroded the demographic characteristics of their local areas to the point that they may have problems meeting present recruiting needs. High technology mission requirements make these problems worse where people with specific skills have tended to migrate away from some areas in favor of others.

DIFFERENT CAPABILITY. When deciding to change the force mix or increase the size of the ARF, one must consider the differing levels of readiness and combat constitity isherent in full-time and part-time organizations. In the same way that the week-end golfer or generally lest proficient than the professional golfer or the tournament circuit, the average Reservist or Air Guardaman will not have the same degree of skill or producional as the average Regular. The Air Force has big controlly wrestled with this question and has recognized that there is some reduction in the capability that is readily available in the ARF. Rather than requiring ARF units to maintain 100 percent capability in such missions.

interdiction operations, the Air Force has modified the taskings in many cases to require fewer training events or less than 100 percent proficiency from all members of a squadron. For example, the Air Force requires the typical Active duty fighter pilot to fly 46 sorties semiannually to meet miniumum combat ready criteria whereas a Reserve pilot would only need to fly 32 sorties during the same period. (19:3-4) At the same time, the Air Force has considered the generally less capable state of the equipment assigned to the Air Reserve components by not assigning the full range of wartime missions that their Active component counterparts might have. It is unrealistic to expect the AFF F-4 squadron flying 20 year old airplanes to be able to penform as well as the Active F-15 or F-16 squadron with airplanes fresh off the production line. The weapons, electronic counter-measures equipment and basic reliability of systems all play a role in this. Even in those instances where both the ARF and the Active forces have the same basic equipment like the F-16, the newer, more capable mirchaft -- the C and D models -- are assigned to the Active units, while the ARF has the earlier A and B models.

DIMINISHING RETURNS. The issue of defense costs will always be a prominent consideration in the minds of Americans — it was even at the time of the founding of this nation. President Washington argued against

maintaining standing armies for that very reason. The AKF has enjoyed remarkable growth as the beneficiary of the Total Force Concept because there were cost savings achieved by assigning certain missions to the ARF. The law of diminishing returns is becoming a consideration now because there are some situations where the ARF may not be the cheaper way to go. As weapons systems become more complex and peacetime mission commitments increase, it is questionable whether a particular mission can be done more inexpensively by the ARF. There is also a basic ine-ficiency inherent in the structure of the ARF. Demographics is the most important factor in locating ARF units because most people can only travel limited distances for weekend training. This factor establishes the recruiting base for a given unit and generally limits the where of that unit. The Active force, on the other hand, is not limited to local recruiting and can size its unity to take advantage of the economies of scale. As a result, AFF flying units usually consist of one squadron per location. whereas Active units often have three or more squadrons per incape "

MORHLIZATION IMPLICATIONS. Since the 1973 birth of the Istal Force Policy, the Active Air Force has decreased to the b. 12 percent while the ARF has grown by 35 our ent. (20:1) By the end of Fiscal Year (GY) 1987, total

Air Force strength will be 800,000 people, with 24 percent of that number in the ARF. (21:332). What are the implications of the past 14 years of sustained real growth in the size of the ARF and its growing proportional size relative to the Active Force?

the effects of any future mobilization of the ARF in terms of both foreign and domestic impact. Traditionally, governments have closely watched the mobilization of reserves because this action has been one of the key indicators of a nation's resolve and willingness to declare war. With so much combat capability in the ARF and the prospect of even more in the future, it may be difficult for the US to take any significant military action without mobilization. (22:77) If the US had to mobilize to meet a low intensity conflict or some other contingency short of general war, there might be a danger of overreaction from other nations who hold the traditional view that mobilization is the precursor to a declaration of war.

Domestic considerations are equally important if mobilization seems more likely in the future because of the increasing size of, and reliance on, the ARF. While some federal, state and local government agencies and private enterprises have looked at the potential impact of mobilization, only a few have identified key, essential positions that shouldn't be filled by members of the Guard

and the Reserve. Such identification may be crucial to ensure that the public and private infrastructure of the nation will continue to operate after mobilization. Many people in the ARF have military duties that are related to their full-time civilian occupations in fields like asiation, transportation, medicine and engineering. (7:260) Without a comprehensive study of the civilian employment of APF personnel, we really don't know how mobilization would aftect the manpower of local police and fire departments, civilian hospitals, commercial airlines, and key defense industries.

POCOCCOST PROGRAM SECTIONS

divided into three categories -- basic, technical, and continuation training. At the basic and technical levels, the ARF relies to a large extent on the Active component schools to provide the training for its personnel. Much of this training is very expensive, such as basic military braining, officer training school, undergraduate pilot and can igator training, and many of the initial technical to coming schools. Except for the pay and allowances of the AFF trainers, the active Air Force pays for all costs a second of the initial divided with those schools. This is often forgotten when force much is we are debated and can skew the arguments mental if the initial costs are omitted. For example, the

Active Air Force still has to operate most of the schools that provide the pilots to both components. The infrastructure to administer this training requires a full-time force and it is doubtful whether there would be any meaningful cost differences if this mission was handled by the Active or the Reserve components.

their own resources, either at home base or during exercises. This is the area that is the biggest money saver when comparing the ARF and the Active force. The ARF sustains a lower activity level than similar Active forces because of their part—time operations and because they train to different levels of capability. In spite of this, they still provide a high level of combat readiness because of the high percentage of prior service personnel, many of whom have combat experience. These members also tend to remain with their units longer than their active duty counterparts.

AVAILABILITY. The availability issue concerning reservists is twofold. The first aspect is whether the individual reservist will show up if mobilized, and the second is whether the reservist has enough time to meet the continuation training requirements to maintain a high level of readiness. These two issues can be folded into the

concept of response time, or what is called "the basic military difference":

In broad mobilization planning terms, the response time is the basic distinguishing feature between active and reserve forces. Given enough time, the most under-trained, undermanned, and under-equipped reserve unit can be brought to the point of combat competence sufficient for use as an active duty unit. This process might take days, months, even years. Thus response time becomes a pivotal consideration. (23:25)

The present situation dictates a rapid mobilication scheme for the US reserve forces. This is generally referred to as the "come as you are war" and is the result of our forward deployments around the world and the faster pace of modern warrare. This requires that the reserves maintain a high level of readiness and that all personnel must be available when mobilized.

During the korean call up, the reserves experienced drop out rates of approximately 20 percent. (24:63). Since then, much has been done to rectify the problems encountered during mobilization. Entry and retention shandards have been tightened, and the legal and political bases for mobilization are much clearer than they were in the early 1950s. During the last callup in 1968, in which more than 10,000 reservists participated, the dropout rate was less than 1 percent. (24:63)

Another area of concern is the availability of AFL pilots building full time jobs as commercial wirline pilots and the possible conflict that this might cause with

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requirements for the Civil Reserve Air Fleet (CRAF) in a mobilization. (The CRAF is a fleet of civilian sircraft and their civilian crews from the airline industry that can be called by US national authority to augment our Military Airlift Command.) This problem was investigated in a Rand study in 1979, which discovered that of the 29,000 milets employed by the major US airlines, only 2.5 percent were reserve pilots, which would present no real problems. (24:63). Recent studies, however, have surfaced a new problem in this area. The air freight industry has grown dramatically during the early 1980s. These companies don't fly as many sorties per day on their aircraft as the traditional airlines do, and therefore they do not hire as many crews per airframe. There is a large number of reserve pilots working for these air freight companies and this would cause a problem for the CRAF in a mobilization because these companies provide a large portion of the most desirable wide body cargo aircraft in the CRAF. This problem has been partially solved by making arrangements to form a pool of civilian pilots within the air freight andustry to interfly their aircraft to meet the CRAF commitment. This reopens questions about the CRAF as a whole, however, because we're not sure how the pilot population of the other major airlines has changed since 1979. Perhaps it's time for another Rand study.

The other side of the availability issue concerns

the demand for day-to-day availability for training of the individual, part-time reservist. It s ditticult to construct a profile of typical availability because some reservites live close enough to their units to train during the econing sitter work, while other: live for away and conoull train on westends and during varations. In my event, lot a valume an weerage resorvial has a 40 hour -a-week civilian job and a two week vication per year. This would provide Signechand, (100 days) and 14 days of vacation, or a total of 114 days a coar to devote to receive training. The minimum participation requirements for a member of the Solected Messeye is 12 weekends and 15 days of annual training, or a total of 39 days per year. Airchews, on the other hand, have the same basic requirement plus an additional 48 flying training periods to maintain minimum flying profitiency, which adds up to roughly 87 days per year. The increasingly complex nature of war and the unworms systems required to fight that war. in addition to more recliming the ining in the form of overseas evencises and percentime arrestons, have added considerable to the bracks of land since the acominimum participation. rings specially suggest that bestied. The + However are come Conside participalizar note. So no entists in 1986: An Abb A salob port in domit 1 % of a, the FC-1 第 crowmenter: served the days, the comagn officer put in 123 days, and the average milisted person put in about 80 days. (25:00)

In summary, the average reservist, particularly the aircrew member, has just about used up all of the available space time away from his or her civilian job to devote to military training. While this speaks well for the dedication of our part-time warriors, it also points out that this country is rapidly approaching the limit of what can be expected from the Air Reserve component of the Total Force mix.

THE ROLE OF CONGRESS. One facet of the Air Force Reserve and the Air National Guard that warrants thorough eramination is the part played by Congress in the determination of the structure, missions, and force mix of the Air Reserve Forces. For instance, does the legislative branch do more than just appropriate the monies and approve the programs proposed by the Department of Defense (DOD)? Is some of the command and control of the Guard and Peserve, in fact, usurped by Congress? Do individual Guard and Reserve units achieve changes in equippage or mission through lobbying efforts directed at Senators and Representatives? Do Air Guardsmen and Air Force Reservists perceive that Congress is involved directly in the determination of force mix, roles, and weapon systems? Or Congress hole (is-a-vis the Air Reserve Forces strictly) mes of appropriation and authorization? Do the Air Force and the DDD retain the decision-making authority and the

tan the Air Starf determine, with impunity and without tear of being overruled, that drastic changes in structure or mission within the ARE are necessary? Can the necessary programming action be accomplished and the changes he implemented without retaliation? Is there, as some critics have alleged, a tendency for Congress to micro-manage and concentrate on minutia in pursuit of what some regard as "port barrel" interests? These questions and others will frome the discussion and review of the role of Congress.

Perceptions are often more important than the truth, so it is probably instructive to begin by discussing some of the commonly held beliefs of members of the ARF. Many Air Reservists and Air Guardsmen indicate that they teel that Congress plays a direct and prominent role in the ideatification of missions, equippage, command and control, structure, and force mir for the ARF. Meny cite specific oples, although other based on hearsay, of direct suitor, motion by a Senator or Popresentative on behalf of a specific owild for Roserla unit. Acti ities which lead to a strongern griffe controller total, a charman of militaron, or an There are including the months are resquentized attributed to the actions or a legislator or big or took takkers. Many Show sembles, appear to sulface that expedience is served by on the appropriately legs to term directly on through professional organications such as the Guard Association or

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the Reserve Officers Association. In some cases, the perception is that Congress proposes and the Air Force reacts.

Congressional Quarterly Incorporated publishes a variety of documents and conducts seminars intended to assist personnel in understanding how the legislative process works. In the introduction to the book, How Congress Works, the editor notes some fundamental changes which have taken place in the past decade which prompt a much greater responsiveness on the part of the individual legislator to the interests of his or her constituents. The legislative process is now much more visible to the individual voter, and the advent of instant communications heightens the "congressional willingness... to finance more and more special services aimed at the home folks." (26:1) "The cumulative effect was to make members of Congress more independent of party appeals by their leaders and more dependent on special interests and movements back home." (26:1) In light of this, it is probably not surprising that members of the ARF feel that they get a generally positive response from their legislators when approaching them about improving the situation in the local Guard or flesonve unit. The real question is, what can the Transpressman do and what really happens?

"The Founding Fathers did not expect the lawmaking tonction to be unduly burdensome because they thought

Congress would confine itself chiefly to external affairs and leave most of the domestic matters to state and local governments." (26:37) "Today much of the legislation considered by Congress originates in the executive branch..." (26:39) Indeed, it would seem that the branch of government most conversant with the problems and daily affairs of an organization would be in the best position to initiate changes that would improve the overall operation. That apparently isn't necessarily how things actually work.

SCHOOL STATES

WARRION BROKENS & WINTERS BEESCHOOL CONTROL REFERENCE - REPRESENT

The Budget and Accounting Act of 1921 strengthened the executive branch in that it enabled the President "to draw up a unified national budget - a detailed business and financial plan for the government that reconciled proposed spending and estimated revenues." (26:37) most significant piece of recent logislation to affect the actions of the Congress is the Congressional Budget and Impoundment wit of 1974. "It required Congress to set out the nation's priorities in a spending plan for the coming fiscal (car." (25:1). This had the effect of drawing the various Congressional committees more fical, into the proportiation process and importably reduced the impact That to individual Craquesaman could have on a specific garage of the introduction. The may then proceed, authorithms committees upone required to anotify there processes as that *unding *ac them sell within blue butters or electrons." Darie is a consequence, the budgetory process has assumed a new,

and almost totally pervasive, role within Congress.

Congressmen, critics, and advocates of the current system all seem to recognize that a whole new power base and method of operating was created with the implementation of this law.

The individual legislator serves two functions. or she is both a lawmaker to the nation and an emissary from the people of a specific area of the country. (26:153) Because of the increasing effect the national government has on the lives of the constituents of each Senator and Representative, members of Congress find themselves pressured to respond to a great variety of issues. Constitution gives Congress specific legislative powers, but it does not spell out the duty of members to respond to constituent demands... The relationships between a member of Congress and his constituents is the crux of self-government in the United States." (26:153) the common desires of legislators is to find a consensus or sense of the mood of his or her constituency on any given subject. As a consequence, direct communication is encouraged. At the same time, the legislator is also pursuing that consensus through the media, special interest groups, other members of Congress, and other elected officials.

The presence of a group of people with a common qual within his or her constituency becomes a source of

considerable influence to the legislator. In the case of an ARF unit determined to effect change, a significant statistic becomes available to the legislator in the quest to determine a consensus among the constituency. Hot only are the majority of the members of the organization likely to be active participants in the voting process, they also represent two other considerations to the Congressman. ARF member has the capability to directly affect the opinions of others with whom he or she comes in contact, and there is the consideration of the permanancy of the ARF member's residency. Many members of Guard and Reserve units joined right after high school or after a stint in the Active military establishment. Their sense of commitment and belonging becomes a powerful motivator and is a significant factor in their voting behavior, support for political candidates, and any lobbying they may do on behalf of their organizations.

In addition, Congressmen appear to be prominent playons to the direction provided to the ARF because many of them apparently perceive the National Guard and Reserve Forces to be a less expensive means of providing for the national detense. "The total-force policy was promulgated in 1973 by Secretary of Defense James Schlesinger. It was conceptualized...by his predecessor. Mel.in Cound. three years eacher." (27:1) - but has beprened to the interim

Control of the Contro

dictated its expansion. "In a world of limited resources and competing social, economic, and national security demands, valid arguments exist on all sides concerning how the recource pre should be fliced." (27:1) In the course of bearing and weighing these arguments, the legislators have free forced to deal with a difference. On the one hand, the COD argues that progress is being made, that cost savings are being achieved, and that the primary consideration should be the effectiveness and availability of the forces. This argument tends to support the continuance of a large, active duty force. The other side of the issue is taken by those who argue that far too much is being spent for defense, that costs can be reduced by transferring more missions to the reserve forces, and that COD should be forced to make the changes quickly.

"There are at least two broad motivations for considering shifts in the mix of active and reserve forces — (1) to sake money, or (2) to improve the military balance of forces." (7:230) "Reserve forces appear to have some inherent advantages over active forces with respect to gross costs." 7:231) Congressional committees have been provided estimates of potential savings that vary from 30 to 50 percent if a mission being performed by the active dits component is assumed by a Reserve unit. (7:234) As a consequence. Congressmen routinely express their interest in modifying the force mix as a means of reducing the total

bill (a national detense. "...Let us give them more dissions, more jobs." (7::40) "Cost comparisons are ...the riason we have reserve forces...they cost less than active farces." (18:1) That costs have become the overriding issue to Congress should really come as no surprise.

What should be more to the point is the question of Congress expertise on military matters and the actual role played by the legislative branch in the formulation of posticy. As we have seen, there is a strong incentive procent to the Congress that promotes both an interest in the affairs of the ARE and in finding cheaper ways of providing for the nation's defense. The historical basis tur executive branch management of the affairs of the willtary can be found in both the Constitution and in the implementing laws of our nation. The intention was that the BOD provide direction, guidance, and implementing suthority to the individual Services consistent with trosidential policy and Congressional concurrence. empertise, comparate Enowlodge, and responsibility was to by vosted with the people must familiar with the issues and aroblems.

According to former Senator Gary Hart, there really aren t that many people in Congress who are really interested in the quality of the military or in the ability of our forces to exfectively detend this nation in time of u.e. "Most of the debate of about money." (29:18) Ho

also suggests that membership on the committees charged with overseeing the armed services is neither a quarantee of expertise non a commitment to ensure quality or readiness.

Concidening all of this, the degree to which Congress is perceived to be involved in tormulating policy for the armed forces warrants greater attention. As we have noted, many members of the ARF are convinced that a considerable amount of the policy and structure operative in the Air National Guard and the Air Force Reserve is the direct result of Congressional direction. As an example of why this perception exists, the following language can be found in DOD Authorization Act, 1983, House Committee On Armed Services Report No. 97-482: "(The Air Force should) prepare a plan which provides an expanded heavy airlitt mission for the Air Guard...(and) the Committee is directing that the active Air Force shall create no new strategic airlift units to accommodate delivery of the C-5B aircraft..." (7:321) That language led to the conversion of two ARF units, the Jackson, Mississippi Air National Guard unit and the Andrews AFB Air Force Reserve unit, with C-141B aircraft transferred from the Active force.

That same House Armed Services committee went on to request "a copy of the Rand Study...addressing...specific missions which can be assigned to the Guard and Reserve forces without adversely impacting readiness and yet at the

same fime producing substantial savings." (7:32): That study has been released in draft form to selected offices for review and comment, but has not been published and made officially available.

CHANGE SHARES SHARES

A separate cost analysis study done by the same authors has been published and provides an excellent opportunity to look at cost differences. (12:vi) "The cost differences between similar octive and Reserve units vary greatly depending on the specific type of unit. If the Reserve combat units are labor intensive, and if there are few full-time personnel, then their annual operating and support costs generally are substantially less than those of comparable Active combat units."(30:vi) A specific example provided in the summary is that,

The Air National Guard (ANG) C-130E unit has annual operating and support costs equal to approximately 72 percent of a similar Active unit. For both Active and Feserves, the total annual unit costs are approximately half equipment-related and half personnel-related. The ANG personnel-related costs are 75 percent of the active unit personnel costs, and the ANG equipment-related costs are 67 percent of the equipment-related costs. (30:vi)

That data is qualified somewhat in the study because, "the model deals solely with annual unit 0 & S (Operations & Support: costs at proposed peacetime operating tempor...'and)...no conclusions about the desirability of transferring equipment or missions from one component to inother can be drawn from examining 0 & S costs alone."

130:2,2:1 "The costing information...must be joined with

assessments of the combat capability provided by alternative force mixes." (30:v) The model did not consider the initial costs of equipping and manning the ARF unit, which would include such costs as research and development, or many of the expenses of training the initial dual personnel. It did not attempt to examine the effect of different force mix strategies, operating tempos, or levels of proficiency and performance. (30:vii, 25) In many cases, the utilization of equipment possessed by ARF units is lower than that demonstrated by a similarly equipped active duty unit. In the case of this study, the underlying assumption was that each unit could perform its mission tasking equally well in all scenarios and that the only relevant statistic was total cost.

The Rand corporation has done similar studies in the past. The conclusions have been relatively consistent, as have the qualifications or caveats about taking the published findings only at face value. "Criteria other than cost are relevant to force-mix decisions." (30:25) The Acsistant Secretary of Defense for Reserve Affairs has testified in hearings before the subcommittee on Manpower and Personnel of the Senate Armed Services Committee that, "as our missions and equipment become more complex, our ratio of full-time support personnel will necessarily increase." (31:28) This qualification is reiterated in one form or another by the Chief of the Air Force Reserve's

staff and by the Director of the Air National Guard.

"Missions which require full time, peacetime intensive activity are not appropriate Reserve missions..." (32:1)

The message is that the ARF won't be less expensive to operate if its units are assigned active duty missons that are manpower intensive in peacetime and have little demand for increased capability in time of war.

CARAM CONSTRUCT TAXABLE CONTROL

Reservation Exercises

One might well ask the question, if this is the message that the military establishment is trying to convey, has it been understood by the members of Congress: The most appropriate bodies to reflect upon this message should be the Senate and House Armed Services Committees. "Much of the business of Congress is done in committee. Modern law-making requires an understanding of many complex subjects, and the committee system provides a means by which members can attain a high degree of specialization in centain areas." (76:79) The Armed Services Committees are extensions of the original Naval Affairs and Military Affairs committees. Their purview is all matters relating to stable of the DOI. This engenders tremendous scope and power. "The committee chairmen) wield great influence over the tite of legislation, and thus over government programs and openations."(Co:29)

"The Greed Services committees usually nove members thom California, New York, and the Deep South, where defense related industries and ship-building plants are

concentrated." (26:87) Perhaps this phenomena is intended to capitalize on the potential that Congressmen from these areas are more likely to be well-versed on the roles, needs, and capabilities of the military, but it is also possible that prior experience and extensive knowledge are not important commudities in the selection process. Former Senator Hart suggests as much, as do the authors of How Congress works.

More important, in many respects, than the relative experience and interest of the committee members are the committee staffs and the staffers who work directly for the individual Congressmen.

Most Congressional offices are organized similarly, each containing an administrative assistant, legislative assistants, caseworkers and at least one press aide...Members cannot handle the heavy Congressional workload on their own. They need legislative assistants for substantive and political guidance because the daily congressional agenda is filled with complex, interdependent issues. There are more committee meetings than a member can adequately prepare for...A member must rely heavily on staff at every major phase of the legislative process. (26:124-5)

"Today's staffers are more highly qualified than ever before, and they come increasingly from professional rather than political backgrounds." (26:127) In particular, the committee staffers become extremely well-versed in the subject matter. "The influence of the staff bureaucracy has grown over the years as many members, swamped with a workload of increasing bulk and complexity, rely on their

aides for policy recommendations and professional expertise...There is a feeling among some members that for many decisions are getting away from the persons tho were elected to make them." (26:105) In some cases, because of tourse, aptitude, experience, and perseverance, a stuffer can single-handedly take on an issue and change the outcome of legislation or a vote on a matter before Congress. This obviously magnifies the need for the DOD to ensure that the appropriate committee members, staffers, and aides understand the implications of changing the roles and missions of the AFF.

THE BUDGET PROCESS. On the other hand, whether it is the individual Air Guardsman or Reservist, the leadership of the ARF, or members of the Military Meform caucus in Congress, there is a concensus that the Guard and Preserve must have modern, combat-ready equipment. To this and, a great many people dedicate extensive monhours and vefort in deficiency those needs through the Flanning.

former which that now neutrinized U(U readership a gone entitle of the enclusion was appropriately for the enclusion of the country. Hims of the country of the become that a former than and the ray argument. Heyardless of one is closer to the the ray argument.

reform that allocation process in the early 1970s. "PPBS is the DOD resource management system...its purpose is to identify mission needs, match them with resource requirements, and translate them into budget proposals."

(75:2) The expressed goal is to "provide a better quide in deserving programs and budgets." (25:2) National security police, as provided in National Security Decision Officetives, is the basis "from which the Defense Guidance is deseloped." (23:3) The Five Year Defense Program (FYDP) and the DOD portion of the President's budget submission to Congress evolve from the Defense Guidance.

The rest of the PPBS process is a classic example of the ebb and flow of influence and the fluidity of the decision-making process in a democratic government. Each initiative that is developed as a result of the Defense Guidance must enter the FPBS network as an element of the Program Objective Memorandum (PCM). Countless hours of development and justification go into every FOM. Inreat assessment and opportunities, policy, strategy, force and resource planning, fiscal constraints, and all major issues are gleaned from the Defense Guidance and used in the FOM s development. (73:14,17). Using a process known as Mission Arma Analysis, Air Staff planners establish a "listing of capability improvement needs and limiting factors..." that

All of this is used in the programming phase of the FOM process. After the POM has been developed from the Fig. rear Defense Program (FYDP), the Defense Guidance (DG), and "senior leadership..initiatives (and) inputo, the reliew process begins. (CB:17) In essence, each proposal roms qauntlet of boards and panels in which each fact of the proposal is critically evaluated. To track this process, a Program Decision Package is used. This functions in much the same way an audit thail or an accounting ledger does and serves as a bistory of the decision-making process on a portion of the program. The HOM development incorporates ull of the various requirements and mank orders/prioritizes In this process, modernization, force growth, research and development, readiness, sustainability, operations, training, and directed programs compete to be included in the Budget Estimate Submittal that is presented to the Office of the Secretary of Defense as an initial bacoline.(33:30,21) Frogram Exercises are then conducted to "refine program costs estimates and update the rive Year Defence Plan.: (37:24) Other (11 program adjustments are ander, the (Each Horce and Financial Program (Exfe) and a or set of inveptom vocaments are prepared toat include air Topics remembered at rome on tempor levels, make cases requirements. and procurement treads. All of this is formal bed by appropriation rode and includes the necessary apporting nationale. (3%17,10) "The Unit F&FF retlects

Proposed substant Pressess

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the program approved by the SECDEF and is consistent with the COD FYDE. It provides expansion of detail over the FiDF for AF pregram elements and they cost data are roomanized by major program, appropriation, cost dategory, und cost element. ' : :3:28) The ultimate goal of all of the iteration. In lite submission of a Presidential budget that And idea for the becessary manpower, tacilities, aircraft, minimizes, and operating funds to enable us to overcome the core d.1 (37:39). The FPBS cycle iddes not evolve in isolation. Rather, several cycles are simultaneously in progress. In fact, if enactment and execution activities are included, four cycles overlap each other. This is significant because unexpected events in one cycle can impact a cycle in an earlier stage of development." (33:38) What is perhaps most important to take away from this summarization is that the process is dictated by law and incorporates the expertise of the most knowledgable personnel available at all levels of the federal government from the Fresident and the National Security Council to field commanders. The Mayor Commands (MAJCOMS), panels, committees, Air Staff Board, and the Air Force Louncil all review, prioritize and refine the submission so that threat, atrategy, requirements, programs, and funding are "in oyon,", (7 :18,39)

The mightude of this effort is hard to quantity, but obviously involves a great deal of careful

of Congress who suggest that this is where the whole issue of "relevancy" ends. Senator Barry Goldwater has suggested that "the new guard in Congress...don to think of national defense; that is not an important item to them. They think only of getting re-elected, of what they can get to be built in their own state or district." (34:78)

"They put their hands on the Bible and swear they will defend the Constitution against all enemies, foreign and domestic." But instead of living up to these high principles, many members, he feels, deal with defense issues namely in terms of currying taken with their constituents... At the root of the problem, he suggested, is the fact that most of the voters who "are patriotic, country-loving Americans just don't know what the boys in Washington are doing to their defense." (34:79)

This criticism is echoed in one form or another by a great many people. The Air Force frequently finds itself with direction but no money or with equipment that is inappropriate. "For four years in a row... the military had to like under a CR (continuing resolution, a makeshirt arrangement to compensate for Congress a mability to pass sother a atron and appropriation biller, which is no way to run any part of the government. ' (4:80) Another man, Gostaline of this is that the sair hours will be surely the time to say that to resorte a mission in to provide different exprephent to concern man and their allegancy to the time to sate all of the wheels in marketon. A specially example to life the allegancy to example

and C-141) to the ARF before facilities are available and before the proper funding had been programmed for through the PP85. "One of the most vexing, hoany questions that plagues the rotationship between congress and the Pentagon is line-item conagement, meaning the tendency of the legiclative hold to take over the Pentagon's management function...Doth in a budgetary and programmatic sense... The last thing we fought! to do is micromanage.

SPECTRUMS OF CONFLICT. As one examines the spectrums of conflict in terms of intensity, type. location, and mission area, two factors become apparent. "See Figure 3.) First, there is a growing Air Force participation at the extremes of the spectrums. Space, with emphasis or the strategic defense initiative, satellites, the manned orbital laboratory, etc., and low intensity conflict, emphasizing nation building, special operations, counter-terrorism, etc., are attracting more altention, money, and manpower. These are primarily Active Air Force missions because of their highly specialized, full-time demands even during times of peace. The second factor that is readily apparent is that the ARF, whether by design or accident of history, largely occupies the middle ground of these spectrums. The ARF is better suited for wartime augmentation roles that require relatively low

levels of peacetime activity, such as tactical air, mobility, and some of the special operations and air defense missions.

	CONFLICT INTENSITIES	
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	L OPERATIONS	
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mark tom	· · · · · · · · · · · · · · · · · · ·	

FIGURE 3. SPECTRUMS OF CONFLICT

Bosense of growth of new mission areas and fluctuating, cyclic defense budgets, there is increasing pressure to put more and more units and missions into the ARF. This pressure is often economic in that there is a popular percention that AFF units are incaper. Sometimes the pressure comes from manpower certical imposed on the active duty torces which loave the ARF as the onl. area for growth to meet warfime commitments. Politics also provides

pressure for ARF growth and improvement through
Congressional appropriations to aid local and state
economies by ruying new equipment and facilities for the
ARF.

Regardess of the source of this pressure to increase the size of the ARF or how well-intentioned this pressure eight be, this country must look rationally at the mix of forces, both Active and ARF. There are two basic ways to increase the ARF side of the Total Force mix. The first, and historically traditional way, is to transfer units, one for one, from the Active to the ARF. The second is to look exclusively at the ARF and seek ways to improve its capability to augment the Active force. Let a examine each in turn.

IMPLICATIONS FOR TOMORROW'S

the Active to the AFF, one must consider the effects on responsiveness, national strategy and cost. Active units have distinct characteristics in terms of responsiveness. If warning time is critical, as in the case of strategic homber and missile forces, the Active force is the logical characteristics than 30 minutes warning time available in the event of

commitments. Again, the APF would be hard pressed to meet these day-to-day missions.

ANTOLICA PERTOSOS. SESSIONAS ANTOLOGIA PERTOSOS.

Responsiveness to unmobilized contingencies is unabled area that favors an Active force. While the ARE portion is ited in Grenada in 1983 and in the Libyan raid in 1986, the preparatorance of the forces came from Active smits. The Active force has the most modern equipment and, acce importantly, the full-time manning and availability to work the short planning and execution times required during contingencies. (31:57) Entire active units can be placed on alert at their home bases on even moved to overseas for attenda with little on an disruption of local, state or continue with fittle or an disruption of local, state or continue to continue and dealorments for counter-terroriom, hostage situations and alliters show or force are active dury, percetime missions to which the AFE run't appropriate. Challen it to AFE run't appropriate.

Force, great care must be taken to keep enough units on Active duty to meet challenges across all the spectrums of conflict.

National strategy plays a key role in the decision to transfer units from the Active to the ARF. Our current mational strategy calls for Active forces to be forward deployed worldwide to deter Aggression. In the event of conflict, these forces must quickly blunt any attack and hold their ground until reinforcements can mobilize and deploy from the US. (21:221) We need to have a large number of Active units at home for a training and rotation base to maintain the current number of Active units overseas. The generally accepted figure is a 3:1 ratio of units at home to units deployed in order to train people to -combat readiness before they go overseas, as well as to provide enough assignments in the US so that individuals won't spend the majority of their military careers abroad. (7:276) This latter factor is an increasingly important morale consideration in today's Active Air Force since over 63 percent of its people are married, including 75 percent of its officers. (18:31). Any lengthening of overseas tours or increase in their frequency would likely have adverce effects on recrusting and retention of today's more family-oriented Active force.

If forward deployment is to remain a key component or our national strategy, sufficient Active units must be

on hand to provide an adequate training and rotation base in the US. Except for short deployments and exercises, AMF units don't participate in normal overseas intations.

(31:57) We must consider this in any future force mix decisions.

If, on the other hand, the US decides to go from a forward deployed strategy to a central basing strategy, there could be opportunities for ARF growt!. As Active units are withdrawn from Europe and/or Asia, some or all could transfer to the ARF. Each time isolationist sentiment rises in this country, the central basing strategy gains popularity by offering attractive potential savings through eliminating overseas support costs for the withdrawn units and through reducing daily operating costs by placing those units in the ARF.

Central basing does have its own costs, however. To keep our current overseas defense commitments with a central basing strategy, we would have to invest heavily in more airlift and healist to deploy those US hared senses in times of need. (7:239) Evan more important than the dellar costs and the thought that costs. If the U, haved toward more central are now, potential adversances on the become acceptable as no potential adversances on the become mobilize and deploy US sense in response. For allice might of order in response, the body each of the acceptable of the cost of the cost of their differs. These

allies might choose more independent stances in their diplomatic and military affairs which could prove to be mixed blessings at best. (7:234)

In changing the US mir of Active and AFF forces, dollar savings are often cited as the priamry reason in transferring more units to the ARF. While there may be lower daily operating costs to be achieved in ARF units, there are also many hidden costs in such transfers. mentioned earlier, the local recruiting base of ARF units and their consequent geographic dispersal cause high construction costs for more facilities which have lower utilization than for similar Active units. (36:220) Another hidden cost is the initial gap in Total Force capability when an Active unit is converted to the ARF. (7:244) It takes a year, or longer, to bring a new ARF unit up to be combat capable. Even then it may be at a lower level of capability than the original Active unit because many ARF units are tasked to perform fewer missions in recognition of the training time constraints of their part-time members. Finally, the current force mix provides a predictable and continuous supply of trained manpower for the ARF which reduces the need to recruit NPS cerscone). If more Active units were transferred to the GFF, one could anticipate higher initial training costs for those ARF units as the sources of trained personnel fortodled. (C.A. 4)

ENLARGE EXISTING UNITS. One way to effectively increase the size of the ARF is to enlarge or "robust" existing units so they are equal in size to their Active counterparts. For example, the typical ARF C-130 transport squadron has eight authorized aircraft while the Active squadron has 16. Similarly, the typical ARF fighter squadron has 18 aircraft and its Active counterpart has 24. (7:353) By transferring aircraft and equipment within the ARF to robust some units, other units would be freed to transition to newer aircraft from the Active inventory or from new production. Such robusting would produce some economies of scale in that a C-130 squadron of 16 aircraft doesn't need all of the manpower and ground support equipment that two independent squadrons of eight aircraft do. A close examination of existing tables of allowances and manpower authorizations would reveal the true extent of such savings.

the paracea for future growth, however, planners should whom consider two other factors — the wartime mission and pracetime demographics. Do the war plans call for beddown of only eight C-13es at some locations, and only eighteen stockers. Some plans might call for such small units because of the accordance tempo of wartime operations or because of parking space limitations. To

robust such units for peacetime economy wouldn't make sense for the wartimo mission. Simililarly, demographics might be the limiting factor in sizing and locating specific units in peacetime. Economies of scale resulting from robusting units wouldn't matter much if the peacetime recruiting base for a particular region wouldn't support a larger squadron. If, on the other hand, one discovers that the war plans combine small squadrons into larger units to fight the war, and peacetime recruiting could fill the manpower authorizations of larger squadrons, there's a good case for robusting existing units.

advantages in concurrently equipping both Active and ARF units with identical aircraft and systems. From the start, larger and longer production runs of new equipment should yield lower unit costs, particularly when coupled with multi-year contracting. Commonality of equipment would facilitate training since the same technical schools could handle both Active and ARF student loads. Maintenance, supply, and overall supportability would be greatly simplified by having larger inventories of like equipment. (TO:179)

Another advantage of standard equipment would be in tacilitating joint exercises with the other Services; and the other services.

still equipped to fight the last war, exercise participants and concentrate on developing and practicing realistic faction with a lotal our Force equipped to fight the next vet. It Active and ARF units were identically equipped, the sain on MAUCOMS would find it easier to inspect and enables the effectiveness of the entire force. ARF morale would shar, knowing that they had aircraft and equipment for their assigned missions that were effective, supportable and survivable. At the end of the litespan of measure mystom, near simultaneous phaseout from Active and AMF units alike would preclude the logistics support problems associated with keeping relatively small numbers of aging systems. (7:21)

The greatest advantage of a concurrent equipping policy would be to enhance combat capability. By providing the ARF with the same new production aircraft, electronic wanfare pods, and chemical wanfare protective clothing that the Active force receives, the fighting capability of the lotal Force could increase tremendously without any increases in aRF units or manpower. In a fluid combat environment, a commander would have much more floribility on moving units and diverting discrete if accordanced equipment ensured equal repair, services and reading at many different airfields rather than each wave only bring only different airfields rather than each wave only bring only to handly specific types of aircraft. ORF costs would be troly universally a signature without being increase by

obsolescent equipment not capable of meeting the same threats faced by all.

Weapons sistems become more complet, the training of the operators are the maintainers has become more complex and length; at well. Today's training courses vary in length from several days to one year, depending on the specialty involved, and individuals often must attend several courses in succession to become fully qualified in their wartime tasks. Such lengthy training is difficult to schedule for part-time members of the ARF who have full-time civilian occupations and careers as well. This is particularly true for newly-recruited members and for entire units transitioning to new equipment.

With this country's increased reliance on the ARF, the Air Force as a whole must apply new technologies and creative training methods to ensure ARF readiness. Instead of having part-time ARF members leave their jobs and homes to attend full-time USAF training courses for eight hours of instruction per day, perhaps they could remain with their jobs and homes and just devote two hours per day in part-time training. By using today's technology to update the correspondence course concept, ARF members could train it home via audio and video cassettes, video discs and small computers. Interactive training with closed circuit

talevision via cable or satellite and computer networks linked by telephone modems would turn each member a home toto a remote classroom.

Even if all USAF training courses couldn't be completed through such an expanded correspondence concept. virtually all courses could at least be shortened to a more reasonable length for the part-time ARF member. The cost of equipping such remote classrooms could be partially offset by reductions in travel, per diem, and active duty pay required for ARE members attending formal training courses. Ferhaps more important than cost, however, is the oltimate effect on the individual ARF member. Civilians might be more inclined to join the ARF if less time was required away from their homes and jobs for training. If mRF members could accomplish much of the repetitive. routine, aroual training at home, they could use their unit training ascemblies for more productive and rewarding group activities such as deployments and elections with other units and Services. Creative training has much perbendial for nuclding more combat decabality into the ARR and for making light notice by the limited reallability of at a war tetame mambers.

CREATIVE SCHEIGHTIG. This the growing mumbers of partial in foday a nRF. Areative scheduling is meeded to use their analytic time in more productive ways, ective Force

units should look at their scheduled duties, workloads, and exercises to see when ARF units and IMAs can augment them on a regular basis in peacetime. (38:125) Currently, for example, some ARF beriel part units deploy to active bases to operate existing aerial parts during their two-week annual towns. ARF medical units sugment Active base heap:tals during planned exercises. IMA lawyers and obeplates often work weekends on Active bases providing their services to the Total Force while updating the military aspects of their professions.

There are many such applications for increased integration of ARF skills in the peacetime Active force. AFF units specializing in rapid runway repair, construction, communications, and food services could deploy with Active units to provide critical help during exercises. Similarly, ARF units could report to Active bases on weekends to improve existing facilities or to relieve their Active duty counterparts for short periods. IMAs with scientific and technical backgrounds could augment research and development laboratories to continue work on currrent projects during weekends, making better use of the labs and shortening the overall time required for project completion. Seasonal and celf-caployed workers, students, teachers and university professors can occasionally devote an entire season or add about lease to an extended active duty tour, thus

providing adequate time to contribute significantly to important Air Force projects while boning their wartime skills.

The keys to successful application of such creative scheduling is better understanding of the work that is available, the skills that are needed, and the available time to match the two. The Active force should look for more opportunities to allow the ARE to participate in meaningful tasks that contribute directly to the wartime skills that the ARE needs to practice. The ARE needs to identify more precisely the skills and the availability of its units and IMAs to provide the Active force sufficient lead time to plan productive peacetime training opportunities. The same kind of Total Force effort that goes into preparing the war plans can lead to better utilization of the ARE in peacetime, as well.

today's defend demands that we take a creative look at the design of tomorrows were one systems. Over the years, the ONE has been preoccupied with achieving maximum performance waters, finiting them as quickly as possible, and of tempting to contain animalling costs. (39:131) More resembly, reliability and containability have received none emphasis. The Air for a bystem: Command is working on contain the Advanced Taction! Fighter (ATF) to

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operate autonomously and to be fully mission-capable for 250 flight hours with little or no maintenance. (40:72) Such high tech approaches may work well with the planned Active force of temorrow, but has anyone anticipated what happens when the ATF is transferred to the ARF?

tradictional AhF. Today the ARF still has a large proportion of prior-service people, many of them experienced combat veterans, particularly in the flying units. With the advent of the all volunteer force and the emphasis on keeping as many as possible in full career status, it's conceivable that fewer people will leave the Active force after their initial tours of duty. Couple this with a shrinking recruiting base from which both the active and the ARF must draw, the ARF will likely have to recruit more and more NPS people. With a higher proportion of less experienced, NPS people in the ARF, will they be able to fly and maintain the ATF and similar high tech weapons systems of tomorrow's Air Force?

Creative design in future weapons systems should include the constrictes of the ARF, since it is likely that most systems will ultimately be used throughout the Total Force. This doesn't mean that tomorrow's systems seed be any less capable; it does mean that designers accorded the tasser amount of time available for training and perhaps a lower experience level than in past years on

the part of the ARF members who will use those systems. By considering the capabilities of the ARF as well as the Article force, designers should take a new and expanded look at improving reliability, maintainability, and human engineering aspects of future systems and the training needed to support those systems.

MORE ASSOCIATE UNITS. In considering ways to improve the Total Force, leaders would do well to further explore the associate reserve program as a useful organizational innovation. The associate program provides reserve manpower in the form of organized units to fly and maintain Active force aircraft along with Active units. The associate program has been successful since the late 1980s with the Military Airlift Command in augmenting the C-141, C-5, and C-9, and more recently with the Strategic Air Command and the KC-10. Where the aircraft and the equipment have a planned wartime utilization rate that is higher than the actual beacetims requirement, it s very cost effective to train Reservists for that wartime surger which income heaping a correspondingly large. (coive force, edicate)

Marketing Property and Control of the Control of th

The specials concept may be restor in the fiture fighter world as well. Many correct fighter alloraft are limited in their close similarly and bairlefield interdiction wissions because they can tope and hit their

targets at night or in bad weather. Currently, with the short winter days in Europe, A-10s and F-16s would probably fly less than two sorties per day per aircraft in wartime. The Air Force is on the verge of fielding the LANTIRN (Low-Altitude Navigation and Targeting Infrared for Night) system for these aircraft, erasing many of the restrictions of weather and darkness. With LANTIRN, attacking aircraft could fly as many as six or eight sorties per day, limited only by turn-around times for rearming and refueling. (42:55) Future aircraft, such as the ATF, will have similar, if not expanded, capabilities.

To use attacking aircraft around the clock requires much more manpower than is currently authorized; aircrew, maintenance, and munitions functions would have to increase dramatically to support this new warfighting capability. All of this manpower, perhaps two or three times the number required today, would be quite expensive to keep in the Active force. By using the associate concept, the additional people could train with their Active partners on the same sircraft and remain in the ARF ready to meet the wartime surge.

Another area where the associate program might be useful is in planning for chemical and biological warfare.

Even with the best protective clothing and shelter systems,

tlying and servicing aircraft while under a chemical or

brological attack would be a slow, deliberate and fatiguing

experience. The impermeable protective clothing is bulky and subject to tremendous body heat build-up, and decontamination shelter procedures require elementary care to be effective. Work efficiency is greatly reduced because of these factors, and sortic cates on the aircraft are likely to suffer. By providing additional trained aircrew, maintenance and munitions personnel to augment units under chemical or biological attack, these additional flying and working shifts will reduce individual exposure times, allow more time for decontamination and rest, and perhaps permit a hear-normal sortic generation rate on the aircraft. An expanded associate program, with ARF members training with the same Active force equipment and units in peacetime, could provide this vital augmentation in wartime.

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mose individual mobilization augmenters. The IMA program provides approximately 12,000 fully-trained reservists to augment the Active force during contingencies and wartime in a spectrum of assignments almost as broad as the Active force itself. (43:1) IMA general officers replace mass. Active generals in critical stateside positions. Filewing them in turn to deploy oversess for combat assignments. IMA doctors, lawyons and scientists bring their professional skills when mobili ed, as do finance, weather, communications and bransportation specialists.

direct mission support as an adjunct to their training.
(44:9)

If there is a need for additional manpower for wartime taskings that isn't corrrently met by Active and ARF units, the (MA program has the growth potential to fill that need. IMAs assigned to Active units provide a low-cost alternative to forming new ARF units, particularly in geographic areas where the demographics wouldn't support recruiting entire new units but might support smaller groups of individuals. Peacetime construction costs would be negligible since IMAs train with their Active partners in existing facilities.

There are currently 45 Active Air Force bases in the US that don't have ARF units assigned. (45:162-171) if, for example, the Air Force needed additional security police to defend air bases overseas in the event of war and local demographics precluded the formation of new ARF security police squadrons, IMAs might provide the solution. If ten IMAs were recruited at each of the 45 US bases mentioned above to perform their wantime duties at those bases, 450 Active Air Force security police would be freed for the overseas wantime mission. Many of these 45 bases are located away from large metropolitan areas, so recruiting a few individuals would be far easier than recruiting and the units. These IMAs could train at the

cost. By comparing Air Force-wide wartime manning requirements and the large pool of people available in geographic areas that might not support large AFF units, an expanded IMA program could be an effective way to increase the ARF role in meeting those requirements.

TRAINING TRANSFER FROM CIVILIAN OCCUPATIONS. The Air Force has a program that recognizes the technical and specialized military training courses that its members have taken, and translates these courses into college credits that are accepted by colleges and universities nationwide. Through the Community College of the Air Force, many Air Force people who have attended courses that cumulatively add up to many months, and sometimes years, of training can earn Associate of Arts degrees equivalent to two years of college credit.

Many members of the ARF bring skills and training from their civilian jobs to their units that can, and perhaps should, be credited towards Air Force requirements as well. Commercial picture plints are a unique group of individuals who prosess some qualifications that are directly transferrable. These pilots are licensed by the Sederal eviation administration (FAA), which requires annual flight physical examinations and periodic attitude chamber training. The Air Force also requires flight

Physicals and altitude chamber training for its pilots.

For ARF pilots who are also airline pilots, these overlapping requirements represent time that could be better used in practicing their wartime tasks when they report for the ining with their ARF units. If the Air Force accepted FAA physicals and altitude chamber training, which are virtually identical to its own, the potential savings is time and medical and training costs could be significant.

A substantially smaller savings, although important to the individuals involved, can be found in examining the flying records of pilots who fly like aircraft in the ARF and in their civilian jobs. The KC-10 tanker/cargo aircraft flown by the associate reserve is identical in cockpit layout, procedures and flying characteristics to its civilian predecessor, the DC-10, which is flown by many dommercial sirlines. Takeoffs, instrument approaches and landings are flown the same way in both the military and the civilian versions of the aircraft. It seems redundant to force an ARE pilot who flies 80 hours a month in a commercial PC-10 to use Air Force kC-10 flying time to percomplish takeofts, approaches and landings just to satisfy mulitary requirements. This valuable training time could be used by other reserve pilots who don't fly the Di 10 in ci iliza life, and would allow the DC-10 pilots to representate on the aerial refueling and other military

aspects of their training.

Other civilian skills and training might also be directly transferrable and credited towards Air Force requirements. Some civilian law enforcement officials might be excused from Air Force small arms training, particularly since the .38 caliber revolver is commonly used in both worlds. Many people who have medical and cardio-pulmonary resuscitation training in their civilian jobs might log credit for military training as well. By closely examining the civilian skills and qualifications of ARF members, the Air Force could eliminate the unnecessary duplication and overlapping requirements and better use the limited availability of the ARF.

CONCLUSION

Two questions are frequently asked by those to whom the ARE represents a potential solution to rising defense costs: Is there room or potential for growth in the ARE, and, How much cheaper can the job be done by the ARE?
Unfortunately, neither of those questions really addresses what should be the bottom line of the readiness and combat capability of the nation is asked forces. As we have seen, there are significant differences between the Active and Reserve components of the Total Force. To ignore these in the course of making decisions about the structure, roles

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and missions of the ARF would be unwise. It is to this end that we have provided some points to ponder as our leaders determine our future force mix.

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AND Air National Guard

AST Air Deserve Forces

4418 Advanced lactical Fighter

68 Continuing Kesolution

LRAT Civil Reserve Air Fleet

DOD Department of Defense

FAA Federal Aviation Agency

FIFP Force and Financial Frogram

FY Fiscal Year

FiDP Five Year Defense Frogram

INAs Individual Mobilization Augmentees

LANTIRN Low Altitude Navigation and Targeting Infrared

for Night

Major Commands

NOS Non Prior Service

U a 5 Operations and Support

for: Program Objective Memoradum

7 63 Flacting, Programming, and Budgeting System

seche: Serretary of termine

United States

PSPP United States Air Lorde

)H/E