

TABLE IA  
PORTION OF A DEMONSTRATION CORPUS  
FOR ACORN-I

1. The Air Force is a basic component of the military establishment.  
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2. National security in our epoch requires extensive facilities for  
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air defense, and the role of our Air Force is to provide these.  
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3. The Air Force maintains tight control over its nuclear warheads by  
1 2  
means of a variety of intricate procedures.
4. We have agreed to furnish nuclear warheads to certain NATO member  
2 18  
nations, but only under tightly specified conditions.
5. The problem of missile interception is exceedingly difficult, and  
4  
it is possible that no effective solution may be found for years.
6. An extremely important problem of air defense currently faced by  
5  
the Air Force is missile interception.  
1 4
7. The Air Force must exercise tighter operational control over ICBM's  
1 12  
and transonic bombers than over conventional aircraft.  
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8. One of the most serious problems the Air Force faces in developing  
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satellite missiles is the discovery of effective but yet fail-safe  
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means for command and control of them.  
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9. The Air Force is developing integrated systems for command and control  
1 8  
of ICBM's and transonic bombers, as well as other types of aircraft.  
12 22 6
10. The three central components of the military establishment are the  
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Air Force, the Army, and the Navy.  
1 11 9

11. The branches of the military establishment primarily responsible  
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for intermediate range missiles are the Air Force and the Navy.  
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12. Over-water air defense is primarily a joint responsibility of the  
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Navy and the Air Force.  
9 1
13. Strenuous efforts are being made to facilitate improvement of communi-  
cation between the Air Force, the Army, and the Navy.  
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14. Programs are being pursued for the further development and testing  
of compact yet powerful nuclear warheads for ICBM's.  
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15. Intelligence reports indicate that the Soviets may be behind in  
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the development of compact nuclear warheads for second generation  
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ICBM's  
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16. Some feel that the importance of aerial surveillance and of tactical  
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missions is too often neglected in the Air Force today.  
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17. Functions of the Air Force include aerial surveillance, the main-  
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tenance of a strategic deterrence, and an ability to perform  
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tactical missions.  
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18. The continuing development of our capability for strategic deterrence  
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will eventually require that the aircraft of the SAC be replaced by  
6 16  
ICBM's, and perhaps eventually by satellite missiles.  
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19. Mainstays of the Air Force capability for strategic deterrence are  
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our transonic bombers and, increasingly, our ICBM's.  
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20. Effective continental defense requires that our force for  
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strategic deterrence be strongly supported with capabilities for  
15  
maintaining effective surveillance and for executing tactical missions.  
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TABLE IB  
PARTIAL VOCABULARY OF KEY TERMS FOR THE  
ACORN-I DEMONSTRATION

- |                                 |                          |
|---------------------------------|--------------------------|
| 1. Air Force                    | 11. Army                 |
| 2. Nuclear Warhead              | 12. ICBM, ICBM's         |
| 3. Military Establishment       | 13. Surveillance         |
| 4. Missile Interception         | 14. Tactical Missions    |
| 5. Air Defense                  | 15. Strategic Deterrence |
| 6. Aircraft                     | 16. SAC                  |
| 7. Satellite Missiles           | 17. National Security    |
| 8. Command and Control          | 18. NATO                 |
| 9. Navy                         | 19. Over-Water           |
| 10. Intermediate Range Missiles | 20. Soviets              |
| 21. Continental Defense         |                          |
| 22. Transonic Bomber            |                          |
| 23. Over-land                   |                          |
| 24. Submarines                  |                          |