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CENTRAL INTELLIGENCE AGENCY

30 December 1960

MEMORANDUM FOR: Mr. Allan Evans, State (INR)
Colonel D. R. Brown, USA (ACSI)
Captain H. W. McElwain, USN (ONI)
Colonel R. M. Lawson, USAF (AFCIN 2D3)
Colonel K. T. Gould, USA (J-2, The Joint Staff)
Colonel R. P. Halloran, USAF, Director of
Operational Services, NSA
Mr. Randolph V. Zander, Defense (OSO)

SUBJECT: NIE 11-3-61: SINO-SOVIET AIR DEFENSE CAPABILITIES
THROUGH MID-1966

1. The attached draft terms of reference are forwarded for review.
2. It is requested that your representatives meet with us at 1000, Friday, 6 January in Room 115 Administration Building to discuss these terms.

Chester L. Cooper
CHESTER L. COOPER
Deputy Assistant Director
National Estimates

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Attach 1

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CENTRAL INTELLIGENCE AGENCY

30 December 1960

SUBJECT: TERMS OF REFERENCE: NIE 11-3-61: Sino-Soviet Air
Defense Capabilities Through
Mid-1966

THE PROBLEM

To examine the scale and nature of the Sino-Soviet Bloc air defense system, and probable trends in its capabilities through mid-1966.

SCOPE AND METHOD

1. This estimate will supersede NIE 11-3-60, "Sino-Soviet Air Defense Capabilities through Mid-1965," published 29 March 1960. The new estimate is scheduled for completion in June 1961.
2. In general, the new estimate will follow the pattern of the old, concentrating upon Soviet capabilities and considering

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other Bloc nations primarily in terms of their contribution to Soviet air defense. It is our aim that it should be considerably shorter than NIE 11-3-60. To this end, we propose to use as a model for the new paper the air defense section of Annex A, NIE 11-4-60.

3. Background material should be included as annexes to the estimate. At least two such annexes now appear desirable: one on the Soviet SA-2 deployment program, and another on Soviet fighter production since World War II. In addition, we plan to publish separately a limited distribution annex dealing primarily with the Soviet air defense warning and control system.

4. Greater use will be made of graphic presentation. Contributions are requested for a map of known SA-2 deployment, a bar chart of Soviet fighter production, a chart on air defense organization, pictures of the new fighters and missiles, sketches showing typical patterns of SA-2 deployment around target areas, and a map showing estimated deployment of air defense equipment by area (see Map No. 1, NIE 11-57).

5. The detailed tables on characteristics, strength, and deployment of air defense equipment should be updated, and the

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map depicting Bloc early warning capabilities revised as necessary. Additional tables on air defense missiles (lifted from NIE 11-5-61) will be included.

6. All contributors should review the air defense sections of NIE 11-4-60 (Summary, para. 10; Discussion, paras. 105-107; Annex A, paras. 39-68) and recommend changes and additions to them. The following specific questions are intended to highlight developments of particular interest.

SPECIFIC QUESTIONS

Policy and Organization

1. What changes have occurred in Soviet appreciation of the nature of the air defense problem? What concepts for air defense do the Soviets appear to be developing for the coming five-year period?

2. Effects of the general reorganization and reduction in the Soviet armed forces -- particularly upon the authority, structure, and responsibilities of the PVO.

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Air Defense Weapons

3. Operational status of the SA-1 sites around Moscow.
4. Review the previous estimate as to the probable extent and timing of the Soviet SA-2 program (NIE 11-4-60, Annex A, para. 45).
5. Evidence of new or modified surface-to-air missiles.
6. Status of Soviet antimissile program. Type of system now under development and its potentialities, particularly against satellites. Analysis of supporting electronic equipment.
7. Composition of Bloc fighter forces. Evidence of new fighter aircraft in research and development, in production, and in units.
8. Status of training with air-to-air missiles. Types of AAMs now operational.

Radar and Control Equipment

9. Characteristics of TALL KING (include in Table 2).
10. Evidence of current trends in Soviet radar research and development. Possible application to antimissile defense.

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11. Deployment of new or improved radars. Increased coverage in the Arctic.

12. Increase in passive detection equipment. Effect on warning capabilities.

Civil Defense

13. Assess the extent and effectiveness of Soviet civil defense training. Of the Soviet shelter program.

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