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CENTRAL INTELLIGENCE AGENCY

9 August 1961

MEMORANDUM FOR: Mr. Allan Evans, State (INR)
Colonel B. R. Brown, USA (ACSI)
Captain G. K. Nicodemus, USN (ONI)
Colonel F. J. Cole, USAF (AFCIN 2B3)
Colonel K. T. Gould, USA (J-2, The Joint Staff)
Colonel Robert P. Halloran, USAF, Director of
Operational Services, NSA
Mr. Randolph V. Zander, Defense (OSO)

SUBJECT: NIE 11-8/1-61: SOVIET CAPABILITIES FOR LONG RANGE ATTACK

1. The attached draft terms of reference are forwarded for review.

2. It is requested that your representatives meet with us at 1000, Monday, 14 August, in Room 115 Administration Building to discuss these terms. Since most, if not all, of your representatives for this meeting will be the same representatives who will be here to discuss the draft Annexes of NIE 11-4-61, we intend at this meeting first to discuss these terms and then to proceed with the discussion of the Annexes to NIE 11-4-61.

Willard C. Matthias
WILLARD C. MATTHIAS
Acting Assistant Director
National Estimates

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CENTRAL INTELLIGENCE AGENCY

8 August 1961

SUBJECT: TERMS OF REFERENCE: NIE 11-8/1-61: SOVIET CAPABILITIES
FOR LONG RANGE ATTACK

BACKGROUND

1. On 5 July 1961 the USIB discussed the question of revising NIE 11-8-61 and agreed that, in the absence of any request for earlier revision, a formal re-examination of pertinent information through the regular estimates machinery would begin about September with a view to USIB consideration of a possible revision no later than 1 October (USIB-M-162, item 11). The USIB discussion centered principally on the ICBM, IRBM, and MRBM estimates in NIE 11-8-61. These Terms of Reference are designed to initiate reconsideration of those estimates and to schedule a supplement to NIE 11-8-61 for completion in October.

2. At the same USIB meeting, the requirement to complete the Military Annexes to NIE 11-4-61 in early August was reaffirmed

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(USIB-M-162, item 12). On the basis of subsequent discussion with Gen. Collins, the Board of National Estimates has proposed that these Annexes summarize and update the long range bomber, air-to-surface missile, and submarine-launched missile estimates in NIE 11-8-61, but omit the ICBM, IRBM, and MRBM estimates pending their reconsideration in the supplement.

3. The result of these two actions will be to bring the bulk of NIE 11-8-61 under review and thus permit the USIB to decide whether a fully revised version of NIE 11-8-61 is required and to set a date for its completion. The task set by these terms of reference is to review estimates in NIE 11-8-61 pertaining to the ICBM, IRBM, and MRBM in the light of information received since June 1961.

Procedure

4. USIB agencies and committees are already undertaking certain analyses which will contribute to the updating of the ICBM, IRBM, and MRBM estimates. Among other projects, GMAIC has scheduled a review of ICBM development and performance characteristics and a review of all evidence on deployment, for completion in late

- 2 -

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August, and CIA is calling a special panel of consultants to review the same subject in early September. To take maximum advantage of these and other projects, the following schedule is proposed:

Friday, 1 September: Contributions to O/NE.
Monday, 18 September: Draft to Representatives.
Monday, 25 September: Representatives meetings begin.
Friday, 29 September: Clean-up session.
Tuesday, 3 October: USIB meeting.

5. The foregoing schedule will have to be met at each point if the amount of work required is to be completed by the date set. It should be recognized that the scheduled relocation of this office to Langley in September may further interfere. To facilitate the work, it is requested that all contributions and drafts be given simultaneous distribution by special courier to O/NE, USIB agencies, and interested interagency organizations (i.e., GMAIC, JAEIC, SIC, NPIC, NIC).

- 3 -

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6. As to format, it is proposed that the review of the new evidence and the analysis of its significance for the ICBM, IRBM, and MRBM judgments in NIE 11-8-61 be incorporated into a single, all-source Annex. This will include appropriate charts, maps, and graphics.

7. It will be necessary that all Representatives and other participants have all-source clearances. Names and clearances should be telephoned in advance to Mr. Henry Thomas, Code 163 x2834.

Topics to be Reviewed in the Light of Recent Evidence*

I. ICBM DEVELOPMENT AND PERFORMANCE

- A. Pace of overall developmental effort as judged by recent test-range construction and firing activities.
- B. First-generation ICBM system
 - 1. Purpose, intensity, and results of firing activity in 1961.

*Assignment of primary responsibilities for contributions on these topics will be made at Representatives' meeting on T/R's.

- 4 -

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2. Relationship to space shots and special purpose vehicles fired in 1961.
3. Current performance characteristics and likely future improvements, to include accuracy, reliability, reaction time, possible improvements in guidance and re-entry vehicles.

C. Second-generation ICBM system

1. Intensity and degree of success of firing activity.
2. Relationship to first-generation system, special purpose vehicles, and 2,000 n.m. system.
3. Configuration, guidance, staging, size, payload, and other characteristics insofar as they are known.
4. Estimated date of availability for operational use.
5. Performance characteristics at that date and likely future improvements.

D. Evidence for and likelihood of Soviet development of third-generation ICBM. Possible characteristics of such a system.

E. Tyuratam activities summary and ICBM performance charts (Comparable to those annexed to NIE 11-8-61).

- 5 -

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II. ICBM DEPLOYMENT CONCEPTS

A. Nature of launching facilities

1. Facilities required for handling and launching first-generation and second-generation ICBMs.
2. Similarities and differences in required facilities.
3. Feasibility and likelihood of employing these ICBMs at facilities resembling Tyuratam launch Areas A, B, and C, and Kapustin Yar launch areas.
4. Feasibility and likelihood of employing these ICBMs from mobile or hardened launch facilities.
5. Graphics (as in NIE 11-5-61, Figures 28 and 29).

B. Nature of deployment complexes

1. Probable numbers of launchers or pairs; support facilities; guidance, fueling, and handling equipment; road and rail service; warheads and their storage and handling.
2. Probable numbers of missiles, methods of check-out and maintenance, capacity for reload and the times required.
3. Flexibility of operations with respect to targeting, salvo capability, sequential firing, etc.
4. Protection achievable by terrain, dispersal, defense.
5. Feasibility and likelihood of camouflage and concealment -- methods by which this might be accomplished.
6. Graphics.

- 6 -

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- C. Installation and manning of deployment complexes.
 - 1. Time likely to be required for (a) construction, (b) installation of equipment, and (c) checkout, calibration, and achievement of operational readiness.
 - 2. Initial costs in terms of funds, materials, and manpower.
 - 3. Operating requirements in terms of personnel, maintenance, logistical resupply, and costs.
 - 4. Training required for personnel, both initially and periodically thereafter.

III. PRODUCTION AND DEPLOYMENT OF ICEMs

- A. Any new evidence on production, and reconsideration of facilities, costs, and times involved in producing first- and second-generation ICBMs.
- B. Requirements for production of supporting equipment, and evidence thereon.
- C. Review of the evidence on deployment complexes, to include all those areas discussed in NIE 11-8-61 and footnotes thereto, as well as additional areas arising from more recent information.
- D. Evaluation of this evidence as to probability that complexes are operational or under construction, timing of the activity, and likelihood that one or more complexes are located in a given area.

- 7 -

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- E. Likelihood that these areas or complexes are for first- or second-generation ICDM system.
 - F. Evaluation of our ability to acquire information on the basis of past and present collection capabilities -- examination of the significance of negative information.
 - G. Any new judgments as to the regions suited to deployment of ICBMs.
 - H. Maps (as annexed to NIE 11-8-61).
- IV. SCALE AND PACE OF THE DEPLOYMENT PROGRAM
- A. Re-evaluation of timing of initial deployment of first- and second-generation system.
 - B. Pace of the program from initial deployment to the present, and indications of change in pace, if any.
 - C. Estimate of present force level in operational launchers and complexes, based on pace of the program, evidence we have acquired, and judgment as to what we are likely to have missed.
 - D. Future pace of the deployment program.
 - 1. Physical factors affecting future pace, and present evidence bearing on the question.

- 8 -

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2. Re-examination of Soviet programing decisions and pertinent Soviet statements.
3. Probable balance among forces for long range attack, as affected by new evidence on ICBM program as well as on bomber, ASM, and submarine-launched missile programs.
4. Possible effect of suspension of force reductions and announced increase in military allocations.
5. Strategic planning factors, as affected by changes in US target systems and forces.
6. Effects of technological change in both USSR and West.

E. Probable force levels to 1963-1964, and trends to 1965-1966.

V. MRBM and IRBM

- A. The specific topics under headings I through IV apply in general, and should be used as guides in analyzing the 700, 1,100, and 2,000 n.m. missile programs.
- B. Contributions should be made to maps and graphics comparable to those requested for the ICBM section.

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