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11 July 1972

MEMORANDUM FOR: Chief, Strategic Defense Branch, OSR

ATTENTION :

SUBJECT : Cost of Hangar Construction in the USSR

1. Attached is the above referenced subject which estimates the cost of the Soviet Type II hangars.

2. All cost estimates were made in rubles, as requested by your office. The total cost is given in both rubles and 1970 US dollars. The dollar figure reflects what it would cost to build the Soviet structure in the US using US labor and materials and US construction technology. Detailed worksheets supporting the estimate are retained in the files of [redacted] and questions should be addressed to [redacted]

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Attachment:
As stated above.

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Attachment

Cost of Hangar Construction in the USSR

1. The Soviet Type II hangar is constructed of pre-cast reinforced concrete structural members. The main body is of arch sections which are bolted together. Front and rear walls, the exhaust duct and crew room are constructed of large, pre-cast concrete blocks and slabs. The entrance to the hangar is covered by steel plate doors which roll to either side on tracks. The entire structure is waterproofed and then earth mounded with a minimum cover at the apex of the arch.

2. Costs for major components of a hangar are listed below:

Cost of Soviet Type II Hangar

Earthwork (2,200 cubic meters)	2,900 rubles
Main structural work	78,400 rubles
Waterproofing, installation of electricity, plumbing and heating and finishing work	<u>23,400 rubles</u>
Total	104,700 rubles

Converted to 1970 US dollars at
the ruble-dollar ratio for
construction of 0.53 rubles
per dollar

\$197,500

3. Estimates are believed accurate within plus or minus ten percent. Thus cost of the Type II hangar would fall in the range:

94,000-114,000 rubles

178,000-218,000 dollars

Costs would apply to most areas of the USSR where hangars have been built, however for East Siberia, the Far East and the Far North costs would be higher.

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