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Attachment 1

SUBJECT: Collection of Soviet Topographic Maps

MONETARY VALUES

1. An average maximum price of \$10,000 per sheet has been determined for any of the following sheets:

a. The post World War II Soviet topographic maps of the Soviet Union at scales of 1:100,000 or 1:300,000;

b. For any 1:100,000, 1:50,000 or 1:25,000 sheet of areas designated on the map as specific targets:

c. For any sheet at 1:25,000 of areas designated on the map as coastal areas selected for possible amphibious operations.

2. Estimated production costs and estimated areal coverage at the various scales have previously been discussed. The total cost of a single complete set of the 1:100,000 maps could run as high as [REDACTED] 25X1A1a
The prices set are based primarily on the estimated production cost of [REDACTED] with the recognition that real values could run considerably higher if U.S. military capabilities, SAC and other Air Force and Navy bombing effectiveness, accuracy of guided missile deliveries, and related subjects were considered. The absolute need for accurate geodetic positioning and maps for missile guidance systems is established. The actual feasibility of these prices in terms of clandestine operations was not considered within the experiential capabilities of the inter-Agency group.

3. The general lack of reliability of information concerning the content and areal coverage of these maps makes the acquisition of the first sheets very important. The [REDACTED] price could even be doubled 25X1A1a
in an effort to obtain one each of the various scales. With these sheets in hand, our future course would be clarified. It is anticipated in this connection that field collectors will always refer questions of price and scales to Headquarters if this is possible without jeopardizing collection. We do not, under any condition, wish to restrict exploitation of areas of immediate opportunity.

4. The practicability of establishing a schedule of prices based on scale, area, and other pertinent factors was considered. This can and will be done [REDACTED]

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Factors that should be considered in the determination of the actual price to be paid or offered for a sheet are:

a. Scale and area of coverage as set forth in this paper.

First priority scale in the Priority Area I would command a full price. Departures from this optimum condition would result in commensurate decreases.

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c. Condition of sheet.

Whether or not it is severely torn, marred, or mutilated so that maximum usefulness could not be realized might decrease the value. Sheets should not be rejected on this count under any conditions.

d. Date of sheet.

The most recent date (post 1945) might command the highest price. Distinction of print vs. revision or edition dates would have to be kept in mind. A new compilation might have greater value, scale and area being equal, than a re-compilation or revision.

e. Type of reproduction.

The maximum value would be attached to lithographed sheets (collection of plates or reproductions of plates excluded as most improbable) in multiple color with all marginal and grid data affixed. Any photographic copy, particularly with a change in scale, would markedly reduce values of sheets.

f. Land area included.

The sheets are laid out on fixed sheet lines. Thus, many sheets bordering on water surfaces could show very small proportions of land area; however, if the land area were considered important by other standards, the sheet would still have maximum value. The inclusion of hydrographic data on sheets showing large water areas would tend to maintain the maximum value.

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g. Cultural information.

within priority areas, the amount of military and industrial target information could vary considerably, and would have to be taken into account. The importance vs. the density of such information is also a factor.

h. Continuity of sheets.

Contiguous groupings of sheets (a chain effect across broad areas) would, all other factors being equal, increase the per sheet value. With such groupings, interpolation of geodetic and other information could be performed.

5. The above standards are not all inclusive, and DD/P may wish a more definitive analysis. It does point out that the subject is complex, and the actual weighing of values may be academic in terms of our over-all objectives.

Attachment 2

SUBJECT: Collection of Soviet Topographic Maps

SCALE PRIORITIES

1. Priority I 1:100,000 scale topographic map series (military edition)
- Priority II 1:100,000 scale topographic map series (civilian edition)
- Priority III 1:300,000 scale topographic map series
- Priority IV 1:25,000 scale topographic map series (military or civilian edition) for coastal areas in red as indicated on map of area priorities
- Priority V 1:25,000 or 1:50,000 (in that order) scale topo map series for specific target areas

2. It is known that the Russians are publishing map series at the following scales: 1:5000, 1:10,000, 1:25,000, 1:50,000, 1:100,000, 1:200,000, 1:300,000, 1:500,000 and 1:1,000,000. To our knowledge the largest scale series which has been completed for the entire USSR is the 1:100,000 series. Many overt Russian sources have stated that the 1:100,000 series has been completed. It is generally agreed that this is an accurate statement. It is probably safe to assume that the Russians have also published large scale topographic maps (1:25,000 and 1:50,000) for areas of military interest, border areas, development projects, and industrial complexes.

3. All of the above-mentioned series are post World War II maps. These maps are based upon Pulkovo Observatory datum 1942 and Kronstadt tidal gauge and utilizing the Krasovskiy ellipsoid, modified Gauss-Kruger grid, and Russian conventional symbols.

4. The 1:100,000 topographic map series will provide maximum area of coverage with optimum detail. It takes four 1:50,000 map sheets or sixteen 1:25,000 map sheets to cover the same area as one 1:100,000 sheet. Maps at a larger scale (1:25,000 and 1:50,000) will give greater detail than those at 1:100,000, but this additional detail would not

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significantly increase accuracy of target positioning. The 1:100,000 series is adequate for determination of target location. It is believed that the Soviets are publishing both a civilian and military edition of this series. Choice of the military edition is based upon the assumption that military installations and areas of military interest will be shown on these maps and this information would be omitted from the civilian editions.

4. According to Soviet sources the 1:300,000 series has been completed for the entire USSR. This series was designed as a general geographic map to show topography for economic and project planning and large industrial project designing.

5. 1:25,000 coverage of coastal areas shown on the map is required where amphibious operations might take place. The military edition would be preferred over the civilian edition. 1:25,000 or 1:50,000 coverage is required for specific targets shown on the map by various colored circles and lines.

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Attachment 3

SUBJECT: Collection of Post World War II Soviet Topographic Maps

AREA PRIORITIES

1. The attached map portrays priority areas I through V, specific first priority targets, and first priority coastal areas. Submission of maps from each agency revealed that there were no major disagreements concerning these priorities. Minor adjustments, agreeable to all, were incorporated in this final composite map.

2. Selection of the broad areas designated I through V was based on multiple considerations relating to extent of existing topographic maps and aerial photographic coverage, concentrations of industrial activities, areas of military interest, important communications centers and lines, and on over-all strategic planning requirements. The lines separating the broad area priorities are drawn arbitrarily. They might be considered as belts 50 miles wide separating areas of interest. If and when collecting offices feel that designation of these areas on a sheet index map would be useful, this will be done.

3. Coastal areas which might be utilized for amphibious operations are shown as first priority areas in the Black Sea and parts of Sakhalin Island. The optimum useful scale for these areas is 1:25,000, with coverage extending 50 miles inland. Other coastal area priorities are included, but not separately shown, in the broad first priority areas. Scale priorities for these areas correspond to the over-all priorities as shown in Attachment 2.

4. The specific areas designated on the attached map by various colored small circles and one green line cover selected targets having military significance. These targets have been selected for this particular exercise because present holdings of cartographic intelligence are inadequate to provide the necessary geographical orientation for military operations. The list of targets which follows should not be construed as a complete priority listing of targets having military significance in the Soviet Union. The sole purpose of the target list and the accompanying map is to identify certain areas on which a concerted effort should be made to collect Soviet topographic maps. The color coding for the selected target areas is as follows: guided missile locations (green), air fields (blue), aircraft plants (brown), area type targets (red), and nuclear energy targets (black). Place names, coordinates, key numbers (tied to map), and priorities within categories (they are all first priority in the over-all picture), are all shown in the following listing:

(a) Airfields (blue circles);

KEY NUMBER	PRIORITY	AIRFIELD NAME	COORDINATES
1	1	Petrovskiy Yelizovo	53-10N 158-28E

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KEY NUMBER	PRIORITY	AIRFIELD NAME	COORDINATES
2	2	Chopelevka	49-48N 30-26E
3	3	Styy	49-11N 23-48E
4	4	Limanskoye	46-38N 30-05E
5	5	Ukraina	51-08N 128-33E
6	6	Engels	51-29N 46-10E
7	7	Ryazan - Yagilevo	54-38N 39-34E
8	8	Krasnaya Polyana	55-59N 37-24E
9	9	Melitopol	46-53N 35-19E
10	10	Belaya	52-54N 103-34E

(b) Aircraft plants (brown circles):

KEY NUMBER	PRIORITY	AIRCRAFT PLANT	COORDINATES
1	No Rank	Omsk Airframe Plant 166	54-58N 83-27E
2	" "	Komsomolsk Airframe Plant 126	50-36N 137-05E
3	" "	Semenovka Airframe Plant 116	44-09N 133-16E
4	" "	Ulan Ude Airframe Plant 99	51-51N 107-45E
5	" "	Irkutsk Airframe Plant 39	52-21N 104-10E

(c) Area type targets (red circles):

KEY NUMBER	PRIORITY	AREA-PLANT NAME	COORDINATES
1	No Rank	Overdlovsk	56-90N 60-36E
2	" "	Krasnoyarsk	56-01N 92-50E
3	" "	Irkutsk	52-17N 104-18E

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KEY NUMBER	PRIORITY	AREA-PLACE NAME	COORDINATES
4	Secret	Veroskilov	43-47N 131-54E
5	" "	Lomovo	55-21N 86-04E
6	" "	Komomolsk	50-35N 137-02E
7	" "	Kirov	58-36N 49-12E
8	" "	Highly Mail	57-35N 59-57E
9	" "	Polotov	58-00N 56-15E
10	" "	Pyshen	57-10N 65-31E

(d) Nuclear energy targets (black circles):

KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
1	Secret	Orsk	55-11N 61-03E
2	" "	Arzamas	55-23N 43-49E
3	" "	Sarov	51-50N 43-20E
4	" "	Semipalatinsk	50-25N 80-10E
5	" "	Novo-Urensk	49-50N 82-39E
6	" "	Ayskuz	47-56N 60-23E
7	" "	Chalkash	46-49N 71-57E
8	" "	Chelinsk	51-18N 71-30E
9	" "	Desert location	48-00N 72-00E
10	" "	Chkalov	51-40N 55-06E
11	" "	Kyshtym Area	55-13N 60-35E
12	" "	Chernobylsk, North of for 20 miles	50-00N 93-40E

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KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
13	No Mark	Nishmyaya Tura	58-37N 59-50E
14	" "	Verkhne Kuyvinskiy	57-16N 60-09E
15	" "	Gorilsk Area	69-20N 81-00E
16	" "	Komsk	56-30N 84-50E
17	" "	Acherkhov	49-58N 36-15E
18	" "	Lohinsk	56-27N 90-29E
19	" "	Angorsk - up river from Irkutsk	51-30N 104-00E
20	" "	Alma Ata	43-15N 76-16E
21	" "	Umsk	54-59N 73-23E
22	" "	Gozhaysk	55-28N 36-03E
23	" "	Ishovsk	56-50N 53-10E
24	" "	Yoshkar Ole	56-10N 47-55E
25	" "	Novaya Zemlya Area	71-50N 52-50E
26	" "	Novaya Zemlya Area	73-50N 54-00E
27	" "	Anderma	69-45N 61-40E
28	" "	Svobodnyy Area	51-25N 124-10E
29	" "	Svobodnyy Area	51-15N 126-05E
30	" "	Seryshevo	51-05N 128-20E
31	" "	Kuybyshevka Vostochnaya	50-55N 128-25E
32	" "	Kuldur	49-12N 131-35E

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KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
33	No rank	Molotov	58-00N 56-15E
34	" "	Cherepovets	59-00N 37-54E
35	" "	Orskina	59-34N 30-07E
36	" "	Storoya Russo	58-00N 31-20E
37	" "	Mineralnyye Vody	44-12N 43-08E
38	" "	Kerch Bagerovo Area (Crimea)	45-25N 36-20E
39	" "	Feodosiya Area	45-00N 35-25E
40	" "	Bratsk	56-05N 101-50E
41	" "	Ugolnye Kopir (Anadyr near)	64-45N 177-30E
42	" "	Stalingrad	48-34N 44-28E
43	" "	Volsk	52-06N 47-10E
44	" "	Vozrozhdeniya Island (In Aral Sea)	45-05N 59-15E
45	" "	Vladimirovka	48-15N 46-10E
46.	" "	Pokrov	55-55N 39-05E
47	" "	Tula	54-10N 37-35E
48	" "	Tyumen	57-10N 65-30E

(e) Guided missile locations (green circles and one green line):

KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
1	1	Iyura Tan	45-40N 63-18E
2	1	Kopustin Yar	48-35N 45-45E
3	1	Olenya	68-08N 33-29E
4	2	Feodosiya	45-03N 35-22E

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KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
5	2	Uchenga	69-24N 30-50E
6	3	Nizhno Kolyma	68-32N 160-59E
7	3	Nyshtym	55-44N 60-35E
8	3	Nalyy Istok	50-42N 60-50E
9	3	Nizhnaya Alda	50-05N 60-48E
10	3	Inta	66-02N 60-00E
11	3	Khalmer-Yu	67-30N 65-00E
12	3	Zyryanka	65-50N 150-51E
12	3	Verhne Kolymsk	65-45N 150-56E
13	3	Uroliki	61-21N 173-13E
14 (larger circle includes 7 cities not keyed separately)	4	Leningrad Gatchina Mga Koshino Tosno Viskelovo Voykovitsay Zelenogorsk	59-55N 30-15E 59-34N 30-07E 59-45N 31-02E 60-15N 29-36E 59-32N 30-52E 60-22N 30-24E 59-31N 29-52E 60-12N 29-42E
15	4	Moscow	55-45N 37-35E
16	4	Riga	56-57N 24-05E
17 (includes 3 cities)	4	Sevastopol Galaklava Simfer	44-35N 33-31E 44-30N 33-35E 44-25N 32-03E
18	4	Odessa	46-28N 30-43E
19	4	Tallin	59-26N 24-44E
20	4	Kaliningrad	54-45N 20-30E
21	4	Valdivostok	43-00N 131-54E
22	4	Kreskino	42-43N 130-48E

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KEY NUMBER	PRIORITY	PLACE NAME	COORDINATES
23	h	Khabarovsk	48-30N 135-06E
24	h	Komsomolsk	50-35N 137-02E
25	h	Baku	40-25N 49-50E
26	h	Sverdlovsk	56-90N 60-36E
27	h	Stalingrad	48-45N 44-25E
28	h	Green line depicting rail line from Aktyubinsk to Tashkent	

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