Potential U.S. - Soviet Trade in Basic Commodities and Materials

totantial Soviet dollar earnings from the export of basic occupatities and materials to the U.S.

As discussed with Mr. Herbert Block, BA/DES, the U.S. Department of Commerce is undoubtedly better qualified to provide information on this subject, however, the following comments may be of interest:

While the USER has adequate resources to support its proposal in Mr. Eurushchev's letter to President Eisenhover to export manganese and chrone ores to the U.S., the U.S. market is unlikely to be willing to absorb sizable quantities—particularly if long-term commitments are involved—in view of the existing state of relations between the U.S. and the USER. Before World War II the U.S. received 30 percent of Soviet exports of manganese one. In 1948 imports into the U.S. from the USER were equal to 25 percent of the U.S. requirements for manganese one and to 42 percent of the U.S. supply of metallurgical grade chromite.

When the USSR withdrew from the world market, U.S. consumers developed sources of supply elsewhere. As a result of the development of manganese are deposits in Brasil by two U.S. steel firms, Brasil has become the second largest source of manganese imports for the U.S. India, Maxico, Cuba, and the Belgian Congo also have become important sources of manganese imports since 1948, as shown in Table I. The principal suppliers of chrome are to the U.S. are now the Philippines, Turkey, Union of South Africa, and Elucionia-Nyusaland, as shown in Table 2.

There would seem to be little likelihood that the USSR could, in the near future, export significant quantities of ferroalitys to the U.S. Currently Soviet total exports of ferroalitys are estimated at 30,000 to 35,000 short tons of which approximately 55 percent is ferromanganese, 35 percent is ferrochrome, and most of the remainder is ferrosilicon. The U.S. is an importer of these and other ferroalitys—obtained largely from Canada, West Europe, and Japan. However, U.S. consumers are unlikely to be interested in disrupting their present sources of supply in favor of the USSR, even if the Soviet Union were in a position to supply large quantities of these materials.

It is believed that there would not be any substantial importation into the U.S. from the USSR of solid fuels (including nuclear fuels,) petroleum, or electric power. This estimation is not affected by any assumption with respect to import duties. The only dellar income likely to accrue to the USSR might result from an expanded production of the turbo-drill here with possible increased royalty payments to the USSR.

Basic correctities and materials which the Soviets would most likely be interested in obtaining from the U.S.

The USSR does not import U.S. egricultural cosmodities. There have been few authoritative references to any desire on the part of the USSR

to import U.S. agricultural commodities; however, Soviet Ambassador Menshikov was reported to have expressed informally an interest in such imports.

The Soviets recognize the necessity to expend their consumption of some agricultural products. It is unquestionable that they could use U.S. feed grains and livestock products, and possible tobacco and cotton. However, the Soviet leaders have committed themselves to programs for greatly expanding the production of grain, livestock products and ootton in the next several years.

An indication of those chemicals which the USER might be interested in importing from the US can be obtained from recent import data for the USER. Total Soviet imports of chemicals were valued at 335 million rubles (\$84 million) in 1956, exclusive of rubber (Table 3). Basic chemicals, enterials for plastics production, paint and lacquer materials, and photographic materials accounted for the bulk of imports. The USER also imported 500 million rubles (\$125 million) of rubber and rubber products, of which return rubber accounted for 439 million rubles and synthetic rubber 56 million rubles. Soviet imports of chemicals from the U.S. were negligible in 1956.

The major groups of chemicals which the USSR probably would be most interested in buying from the U.S. are those which will be required to support the projected large increases in synthetics production during 1959-65. These chemicals include materials for plastics production and dyes. The USSR might also be interested in a variety of other chemicals ranging from basic industrial chemicals to chemical reagents. No meaningful estimate of what the total value might amount to can be made but it probably would be substantial. A figure in excess of \$10 million would not be inconceivable.

The recent Soviet trade proposal included equipment for the manufacture of pipe and gas lines among the items the USSR would be interested in obtaining from the U.S. In addition to such equipment, there is evidence that other types of equipment for the iron and steel industry would be of interest to the USER. Members of a Soviet delegation to the U.S. recently made inquiry concerning the possibility of purchasing the complete equipment for four or five tacomite-type mines and plants that could have involved an expenditure of \$1 billion.

USER petroleum reservet are more than adequate for her own needs and no importation of petroleum from the US is likely. There might be a small exchange of USER oil, ex the Black Sea, for Western Europe for deliveries of US or Middle East dollar oil to the Soviet Far East on the basis of convenience or laid down cost. Cil field equipment in the USER is believed to be adequate for exploitation of their reserves. Imports from the US are not likely with the possible exception of drill bits.

A potential market for certain specialized types of modern refining equipment probably exists in the USER. It is possible that such equipment and particularly catalytic conversion processes (cracking, reforming, etc.) is necessary to keep pace with the potential rapid expansion of crude oil output and the planned growth of the petro-chemical industry in the USER. Because the US is a leader in the development and manufacture of such equipment, the US might be the logical supplier. Pipeline construction capacity for both oil and gas appears to be limited in the USER and there would be a sineable potential for Soviet purchases both of pipe and of accessory pumping and control equipment.

Thile the USER produces a coal tonnage equal to the US and has vast reserves under development, the USER has a serious shortage of true coking coal and very high production costs, particularly in the industrialized western part of the country. It is econosivable that the USER might import limited quantities of good coking coal to improve and expand the present coking coal blends being used in the steel industry in the Western USER.

The USER capacity in coal mining equipment appears to be adequate. Imports in any quantity are unlikely.

USER capacity in the production of major generating equipment appears to be adequate to maintain the growth of the system. Reports are decord unlikely. Likewise the capacity for construction of high tension transmission systems appears to be adequate and imports are unlikely.

Any large increase in local distribution systems could tax the transformer capacity and to meet such a temporary expansion of demand might load to the importation of part of the many small transformers which would be needed.

The USER might be interested in obtaining copper and industrial diamonds from the US, but it is impossible to provide any quantitative figures on the amounts of either commodity which the USER might take. Although USER imports of copper from the Free World were 60,000 metric tons in 1957, it is questionable whether the USER would purchase this amount from the USER would purchase

Consequences of extensive U.S. exportation to the USSR of equipment and technology.

The Soviets use considerable assumts of grain and potatoes in the production of industrial alcohol (food raw material equivalent to more than 1.7 million tons of grain used in 1957) as well as large assumts of edible fats and oils in industry (600 to 700 thousand tons used in 1956). They have stated their intention to reduce the industrial use of food products.

The expansion of the production of synthetic fibers could permit an increased consumption of fibers, increased exports of fibers, or increased production of food products from the areas potentially releasable from the production of wool and cotton.

One of the major growth problems of the Soviet chemical industry, one that must be solved if the Seven-Feer Plan (1959-65) for chemicals is to be fulfilled, is the procurement of chemical equipment, particularly equipment for the production of plantics and synthetic fibers. In view of the weakness of the demostic chemical equipment industry and of the limited possibilities of obtaining equipment elsewhere in the Bloc, it has been estimated that fulfillment of the 1965 goals for plantics, synthetic fibers and synthetic rubber will depend, in part, on the success the USER has in importing equipment from the West. There seems to be little doubt that a demial of U.S. equipment and technology particularly in the field of petrochemicals would retard the growth of the Soviet chemical industry.

With respect to economic and military significance of the plasmed increases in the production of chemicals, particularly synthetics, the following is quoted from a recently published C24:

The new plan for synthetics was apparently notivated in part by a desire to increase the production of consumer goods, and this notivation was given a great deal of publicity. This publicity tends to obscure the fact that synthetics have vide application in heavy industry and the defense industries. The explants on consumer uses may have been intended in part to soften any reluctance of the West to provide equipment and technology for the planted expansion."

The increased production of chemical fibers and plastics in the USE will permit a considerable increase in the production of such consumer items as clothen and shoes. In addition, the greater reliance on petroleum sources of rew materials should provide an increase in the availability of certain agricultural products, such as grains, potatoes and fats, which now go to produce synthetic alcohol, some and other products."

"A substantial portion of the increased production of synthetics, however, will go into industrial and military use. Enrushchev stressed the role of synthetics in lowering costs of production, and exphasized their use in replacing non-ferrous metals.
In addition, there are many recent examples of the Soviet use of
synthetics in strategic items. Half the measuring instruments
should Spatnik III are reportedly made of synthetic materials.
The Soviet TV-104 passenger place has 120,000 parts made of plastic
end rubber or combinations of these with other materials."

Coviet basic communities and materials which might be of interest to U.S. Industry for prototype or technological reasons.

It is possible that the U.S. could make use of some Soviet seeds and plant material. One of the U.S. agricultural delegations hopes to obtain materials of this type.

There are no particular Soviet commodities or items of equipment for use in the iron and steel industry that are likely to be made available for purchase and are of special interest, from the standpoint of their intelligence value, for either prototype or technological reasons.

The U.S. is now experimenting with Russian built turbodrills for use in the U.S. petroleum industry. There is reason to believe that such drills may prove to be a meeful addition to U.S. petroleum production equipment if suitable drill bits can be developed. Neither the U.S. nor the USSE have developed satisfactory bits for the turbodrill.

There are no other Russian commodities or equipment related to the fuels and power industries which the U.S. would like to have for prototype or technological reasons.

It is conceivable, that the acquisition of samples of rare metals, powdered metals, certain super purity metals, nonferrous alloys of titenium or tantalum, or cermet might be of interest to U.S. research groups.

Basic commodities and materials which the USSR has exported or which appear to be in surplus in the USSR.

The Soviets export cotton, grain, lumber and other forest products, flax, and small amounts of other agricultural products.

Total Soviet exports of chemicals amounted to about 309 million rubles (approximately \$77 million) in 1956, exclusive of rubber and rubber products (Table 4). Coke chemicals and fertilizers accounted for about seven-tenths of the total value. The USER also exported 172 million rubles (\$43 million) worth of rubber and rubber products in 1956, about half the value of which was accounted for by natural rubber, one-fourth by synthetic rubber and one-fourth by tires. It is probable that the pattern of experts in 1957 as quite similar.

Exports of chemicals to the U.S. in 1956 emounted to about \$11 million. This consisted almost exclusively of cohe chemicals, chiefly benzol and nephthalene. Benzol shipments emounted to 100 thousand tons, valued at \$1 million rables (\$8 million). Exports of benzol to the U.S. fell to about 60 thousand tons in 1957, most likely the result of a decline in U.S. requirements.

With respect to the possibility of increased Soviet experts of chemicals to the U.S., the USSR would most likely have expertable surpluses in the fertilizer and coke chemical groups. Potassium salts was the only item in the chemicals category mentioned by Khrushchev in his letter to President Eisenhover.

The Soviet Union has large reserves of potassium. Production of potassium fertilizers (mainly potassium chloride) in 1956 was over 2 million tons (42 percent KgO basis) and production by 1965 probably will be on the order of 4 to 6 million tons. In 1956, 107 thousand tons, were exported

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chiefly to Finland. Exports in 1996 were more than double the h6 thousand tons exported in 1995. The USER signed a trade agreement to supply Japan with 50 to 100 thousand tons. in 1998. Prior to 1998, Soviet exports of potassium fertilizers to Japan were small or zero. Imports of potassium fertilizers into the USER declined from 47 thousand tons in 1995 to 5 thousand tons in 1996. The above information indicates a rising exportable surplus of potassium salts. It would appear likely that the USER could export simple quantities of potassium chloride to the U.S. without additional research may estimate of the total is conjectural but 100 thousand tons (\$2.5 million) or more might be currently available and by 1965 the total might reach 500 thousand tons (\$125 million) amountly.

Disable exports of apatile concentrates (to the U.S.) might be possible. The USER has large reserves of apatile and is a major exporter. Now than balf of Soviet exports go to Bloc countries.

Benzel is currently in surplus supply in the USER. Production in 1956 is estimated to have been 370 thousand tons of which 130 thousand tons, or about one-third, were exported. The U.S. purchased 100 thousand tons, in 1956 and 60 thousand tons in 1957. Soviet benzel production, which is largely derived from coke, is estimated to be increasing at a rate of less than 10 percent per year, while demestic requirements (for the production of synthetic organic chemicals) are probably rising at a much more rapid rate. If would appear, doubtful, therefore, that any substantial increase in Soviet exports to the U.S. over the 1956 level of 100 thousand tons is possible. The long-run trend of Soviet exports of benzel should be downward.

be possible. U.S. imports of maphthalene from the USSR increased from a thousand tons in 1956 to 6 thousand tons in 1957. The pattern of Soviet trade is to export maphthalene and to import phtenslic ambyarids, a chemical which is produced from maphthalene.

while a moderate increase in Soviet exports of chemicals to the US should be feasible any dramatic increase seems unlikely. Even assuming simble exports of potassium fertilizers and a return to the 1956 level of bensol exports, an increase of more than \$15 million in the near future appear doubtful.

The the proposal concerning the possibilities for increased trade between the U.S. and the USSR the Soviet Union listed manganese and chrome ores and ferroalloys as commodities the USSR could export to the U.S. These are commodities which the USSR now exports—to the Free World and to Bloc countries—and which the U.S. imports in large quantities.

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^{*} Reported as 50 thousand tone but E_0 content not given. Probably 100 percent K_0 basis.

There is little doubt that the USES could implement its proposal to export manganese and chrome ores. The Soviet Union has large reserves of each and is believed to have the capability of increasing considerably both the production and export of these commodities. In 1957 the USER is estimated to have produced 5.5 million short tons of manganese are and about 960,000 short tons of chromite. Exports in that year are estimated at 980,000 short tons of manganese are and 270,000 short tons of manganese are and 189,000 tons of chromite in 1957.

Soviet resources are believed to be capable of supporting an expension in experts to 1.25 to 1.5 million tons of manganese are and to 450,000 to 550,000 short tons of chromite within the next few years. Thus, shipments could be made to the U.S. without disrupting the present pattern of Soviet experts shown in Tables 5 and 6.

The USER has continued to export crude oil and petroleum products in increasing quantities since 1954. Table 7 summarizes the imports and exports of crude oil and products by the USER in 1957.

In 1963, the USSR may expert as much as 30 million tons of crude oil and products, divided approximately equally between other Bloc countries and the Free World. In the same year the USSR may emport S million tone of crude and products from the EuSats.

It is known that the Soviets supplied most of the equipment for the new refinery at IANCHON, CHIMA. Although the Bloc has offered and/or supplied a variety of production and refinery equipment to Free World countries it is believed that much of such equipment actually originated in Ammania, Czechoslovakia, and Amgary rather than in the USER.

The USSR became a net exporter in 1957, when total exports of coal and coke were about 7 million tons, valued at about \$150 million. Over 60 percent of the total exports - comprised primarily of hard coal (anthracite and bituminous) and coke - was destined for the BuSats. Coal exports to the Free World of bituminous ecal and coke, which are in relatively short supply in the USSR and the Bloc, represented less than 10 percent of total coal exports.

The USER may export as such as 9 million tone of coal and coke by 1963. Although the Free World share may represent as much as 60 percent of total exports in 1963, such share will again be composed essentially of anthracite. The supply of bituminous coal and coke in the USER is expected to continue to be critical through 1963.

No substantial quantities of power, as such, are exported. Heavy generating equipment has been supplied to the Satellite areas. However, most of the generating equipment offered in the Free World, by the Bloc, is of smaller sizes and is balieved to originate in the Satellites.