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MEMORANDUM RE:

POWER REQUIREMENTS - JULIAN ORE BODY

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JUNE 6, 1962

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CANADA HOUSE, 680, 5TH AVENUE, NEW YORK 19, N.Y.

MEMORANDUM RE:

Power Requirements - Julian Ore Body

The estimated power requirements for the Julian ore body development, as presently planned, are:

A. Mining and Concentrating

Unit 1	6,000 H.P.	=	4,500 KVA
Unit 2	2,500 H.P.	=	2,000 KVA
Unit 3	<u>2,500 H.P.</u>	=	<u>2,000 KVA</u>
Total A	11,000 H.P.	=	8,500 KVA

B. Pelletizing

Unit 1	8,000 H.P.	=	6,000 KVA
Unit 2	<u>4,000 H.P.</u>	=	<u>3,000 KVA</u>
Total B	12,000 H.P.	=	9,000 KVA

C. Smelting

Unit 1	65,000 H.P.	=	50,000 KVA
Unit 2	52,500 H.P.	=	40,000 KVA
Unit 3	<u>52,500 H.P.</u>	=	<u>40,000 KVA</u>
Total C	170,000 H.P.	=	130,000 KVA

Use of 40,000 KVA furnaces at 200,000 tons capacity/year.

The initial development for production of concentrates will require about 8,000 H.P. for 1,000,000 long tons/year (which allows for townsite and other services). As pelletizing and concentrating units are added, these will use up to 25,000 H.P. per year, including townsite and auxiliary services.

Smelting will require 65,000 H.P. for the first unit and 52,500 H.P. for each additional unit.

Total anticipated installation about 200,000 H.P. when the project is completed, 160,000 H.P. of which will be for electric furnaces operation at 90% load factor.

Dated: June 6, 1962.

