

Adams Township, MI

June 1, 1943

Mr. A. L. Engels, Superintendent
Copper Range Company's Milling Dept.
Freda, Michigan

Dear Mr. Engels:

The following is a list of the machinery and equipment required for the installation of one grinding and flotation unit at the Freda mill to treat 1300 tons per day of White Pine ore:

<u>Quantity</u>	<u>Description</u>
1	10/2 Crane
1	10' x 10' Marcy Mill
1	700 HP Motor
1	14' x 35' Dorr Classifier
1	Ball Mill Trap
1	Bin Gates & Control
1	30" x 30' Center Belt Feeder
LS	Manganese Steel & Bin Gate Chutes
1	Weightometer
2	Denver Deep Mineral Jig
2	6" SRL Rubber-lined Pumps
LS	Launder Steel CI Liners Support
1	Belt for closing Grinding circuit 24" x 18' ctrs.
1	200-ton Head Bin
LS	Foundations
LS	Power Wiring & Switch
28	66" Fagergren Flotation Machines
8	56" Fagergren Flotation Machines
1	Denver Mineral Jig
LS	Valves, Fittings, Reagent, Water, Air Cells
1	Reagent Feeder
2	Denver 6"-SRL Pump & Motor
1	42-ft. Dia. Scavenger Thickener
1	25" Dia. Concentrate Thickener
1	Feeder
4	3" Wifley Pumps
10	2" Wifley Pumps
1	5" Wifley Pump

Treating White Pine Ore at Freda Mill

Mr. A. L. Engels

June 1, 1943

Quantity

Description

1	14' x 18' Filter, complete with Vacuum Pump, Vacuum Receiver, Moisture Trap, Air Receiver, Blower, Oliver Centrifugal Pump
LS	Piping Unit
LS	Equipment, handling concentrates
LS	Changes in Foundations
LS	Power Wiring & Switches
LS	Concentrator Conveyor

Very truly yours,

W. P. Nicholls

William P. Nicholls
Secretary to the President

WPN/BFJ

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

Data on Milling 1,000 Tons of White Pine Ore
at the Champion Mill at Freda, Michigan

I would suggest that we complete our installation of two additional 90 ton ore bins with proper rotary feeders on mill units No. 2A and 3A as this would give us a reasonable milling storage capacity which is quite necessary.

In order to mill 1,000 tons of White Pine ore per day, we are planning on using three of the present Copper Range milling units. No. 2 unit with 8'0" x 54" ball mill, Unit 2A with an 8'0" x 72" ball mill and unit 3A with an 8'0" x 72" ball mill.

Units No. 2 and 2A are now equipped with type DSFXM Dorr classifiers, size 6'0" x 28'6", set on a slope of 2-9/16" per foot.

Unit 3A is equipped with type 72" Akins SDPH Type I classifier, set at a slope of 3-3/4" per foot.

With this excessive classifier slope, it may be difficult to cut at 85% minus 200 mesh product.

With our present classifier hook-up on Champion rock, we cut at 65% to 70% at minus 200 product; therefore, I think it advisable to consult the Dorr Company regarding what minor alteration may be necessary to attain the proper cut with out present hock-up.

No. 2 and 2A units are now equipped with two 12 cell No. 24 Denver Sub A Flotation machines.

No. 3A unit is now equipped with a 14 cell No. 21 Denver Sub A flotation machine.

Refer to flow-sheet drawing No. W-389.

To complete this flow-sheet it is necessary to install a new Primary Cleaner Flotation machine, size No. 18, -8 cell Denver Sub A Special similar to the one now in use in our present regrind plant.

In order to regrind the Primary and Secondary rougher concentrate, it will be necessary to utilize our present regrinding unit.

By using this regrinding unit on the White Pine ore, it will be necessary to sacrifice slightly on Copper Range recovery.

Comparing our present thickener area to that of White Pine requirements, our present 24'0" diam. thickener should be of ample size for your tonnage.

Treating White Pine Ore at Freda Mill

In order to have sufficient filtering capacity, we would suggest to install one Oliver, size 14'0" x 18'0" filter, which later can be utilized at the White Pine plant.

We have two spare diaphragm pumps which will be suitable to deliver the thickened concentrate product to the filter.

We have available two vacuum pumps which should be sufficient for the above filter, size 14" x 5" Ingersoll-Rand.

Equipment Needed Other Than What We Now Have

- 2 - 90 ton tanks, 11'0" diam. x 13'3" high, plus cone bottom made by W.B.&I. Co. sheet No. DFl contract No. 4984.
- 2 - Link-Belt rotary ore feeder similar to our present ones.
- 4 - Item No. 1, 3" Wilfley pumps, handling product from primary classifier to primary roughers.
- 4 - Item No. 2, 2" Wilfley pumps handling primary rougher concentrate to primary cleaner flotation machine.
- 1 - No. 18, 8 cell Denver Sub A equipment flotation machine.
- 1 - Item No. 3, 2" Wilfley pump handling primary cleaner concentrate to 24" diam. thickener.

Feeding White Pine Ore at Freda Mill

Adams Township, MI

Copper Range Company
Painesdale, Michigan

Data on our present crushing plant regarding the crushing of an additional tonnage of 1,000 tons per day of White Pine ore and our present 1,200 tons per day of Champion rock.

We plan on using 50% of our present six compartment mine run of rock ore bins for storing rock dumped from Railroad cars. Each compartment has a capacity of approximately 450 tons each.

As we have no spare parts for our present new double impeller impact crusher, I would suggest that we arrange for a spare set of impellers, a complete set of Timken bearings and spare motors for each drive.

Thus with this equipment and minor changes in the chute arrangement so that either primary crusher can be run, we could handle this new tonnage.

So that the ore from each property be treated separately, we would store the -1/4" feed for the mills in the 1,000 ton and 5,000 ton circular storage tanks in the rear of the crushing plant, ready to convey same to our 90 ton ball mill feed tanks.

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

- 3 - Item No. 4, 2" Wilfley pumps handling three secondary rougher concentrates and one primary cleaner tail to regrind bowl classifier and regrind plant.
- 1 - Item No. 5, 2" Wilfley pump handling secondary cleaner concentrates to present 24'0" diam. thickener.
- 1 - Oliver filter, size 14' diam. x 18' long and its accessories for complete unit less diaphragm pumps.
- 1 - Item No. 6, 2" Wilfley pumps handling secondary cleaner tails to primary rougher flotation machine.

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

Data on Milling 1,000 Tons of White Pine Ore
at the Champion Mill at Freda, Michigan

I would suggest that we complete our installation of two additional 90 ton ore bins with proper rotary feeders on mill units No. 2A and 3A as this would give us a reasonable milling storage capacity which is quite necessary.

In order to mill 1,000 tons of White Pine ore per day, we are planning on using three of the present Copper Range milling units. No. 2 unit with 8'0" x 54" ball mill, Unit 2A with an 8'0" x 72" ball mill and unit 3A with an 8'0" x 72" ball mill.

Units No. 2 and 2A are now equipped with type DSPXM Dorr classifiers, size 6'0" x 28'6", set on a slope of 2-9/16" per foot.

Unit 3A is equipped with type 72" Akins SDPH Type I classifier, set at a slope of 3-3/4" per foot.

With this excessive classifier slope, it may be difficult to cut at 85% minus 200 mesh product.

With our present classifier hook-up on Champion rock, we cut at 65% to 70% at minus 200 product; therefore, I think it advisable to consult the Dorr Company regarding what minor alteration may be necessary to attain the proper cut with out present hook-up.

No. 2 and 2A units are now equipped with two 12 cell No. 24 Denver Sub A flotation machines.

No. 3A unit is now equipped with a 14 cell No. 21 Denver Sub A flotation machine.

Refer to flow-sheet drawing No. W-389.

To complete this flow-sheet it is necessary to install a new Primary Cleaner Flotation machine, size No. 18, -8 cell Denver Sub A Special similar to the one now in use in our present regrind plant.

In order to regrind the Primary and Secondary rougher concentrate, it will be necessary to utilize our present regrinding unit.

By using this regrinding unit on the White Pine ore, it will be necessary to sacrifice slightly on Copper Range recovery.

Comparing our present thickener area to that of White Pine requirements, our present 24'0" diam. thickener should be of ample size for your tonnage.

Treating White Pine Ore at Freda Mill

of the Corporation with a capital of \$1,000,000.00
DATE OF MATURITY 1,000 YEARS OF WHITE PINE ORE

In order to have sufficient filtering capacity, we would suggest to install one Oliver, size 14'0" x 18'0" filter, which later can be utilized at the White Pine plant.

We have two spare diaphragm pumps which will be suitable to deliver the thickened concentrate product to the filter.

We have available two vacuum pumps which should be sufficient for the above filter, size 14" x 5" Ingersoll-Rand.

Equipment Needed Other Than What We Now Have

- 2 - 90 ton tanks, 11'0" diam. x 13'3" high, plus cone bottom made by W.B.&I. Co. sheet No. DFl contract No. 4984.
- 2 - Link-Belt rotary ore feeder similar to our present ones.
- 4 - Item No. 1, 3" Wilfley pumps, handling product from primary classifier to primary roughers.
- 4 - Item No. 2, 2" Wilfley pumps handling primary rougher concentrate to primary cleaner flotation machine.
- 1 - No. 18, 8 cell Denver Sub A equipment flotation machine.
- 1 - Item No. 3, 2" Wilfley pump handling primary cleaner concentrate to 24" diam. thickener.

Featuring White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

Data on our present crushing plant regarding the crushing of an additional tonnage of 1,000 tons per day of White Pine ore and our present 1,200 tons per day of Champion rock.

We plan on using 50% of our present six compartment mine run of rock ore bins for storing rock dumped from Railroad cars. Each compartment has a capacity of approximately 450 tons each.

As we have no spare parts for our present new double impeller impact crusher, I would suggest that we arrange for a spare set of impellers, a complete set of Timken bearings and spare motors for each drive.

Thus with this equipment and minor changes in the chute arrangement so that either primary crusher can be run, we could handle this new tonnage.

So that the ore from each property be treated separately, we would store the -1/4" feed for the mills in the 1,000 ton and 5,000 ton circular storage tanks in the rear of the crushing plant, ready to convey same to our 90 ton ball mill feed tanks.

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

- 3 - Item No. 4, 2" Wilfley pumps handling three secondary rougher concentrates and one primary cleaner tail to regrind bowl classifier and regrind plant.
- 1 - Item No. 5, 2" Wilfley pump handling secondary cleaner concentrates to present 24'0" diam. thickener.
- 1 - Oliver filter, size 14' diam. x 18' long and its accessories for complete unit less diaphragm pumps.
- 1 - Item No. 6, 2" Wilfley pumps handling secondary cleaner tails to primary rougher flotation machine.

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

Data on Milling 1,000 Tons of White Pine Ore
at the Champion Mill at Freda, Michigan

I would suggest that we complete our installation of two additional 90 ton ore bins with proper rotary feeders on mill units No. 2A and 3A as this would give us a reasonable milling storage capacity which is quite necessary.

In order to mill 1,000 tons of White Pine ore per day, we are planning on using three of the present Copper Range milling units. No. 2 unit with 8'0" x 54" ball mill, Unit 2A with an 8'0" x 72" ball mill and unit 3A with an 8'0" x 72" ball mill.

Units No. 2 and 2A are now equipped with type BSFXM Dorr classifiers, size 6'0" x 28'6", set on a slope of 2-9/16" per foot.

Unit 3A is equipped with type 72" Akins SDPH Type I classifier, set at a slope of 3-3/4" per foot.

With this excessive classifier slope, it may be difficult to cut at 85% minus 200 mesh product.

With our present classifier hook-up on Champion rock, we cut at 65% to 70% at minus 200 product; therefore, I think it advisable to consult the Dorr Company regarding what minor alteration may be necessary to attain the proper cut with out present hook-up.

No. 2 and 2A units are now equipped with two 12 cell No. 24 Denver Sub A flotation machines.

No. 3A unit is now equipped with a 14 cell No. 21 Denver Sub A flotation machine.

Refer to flow-sheet drawing No. W-389.

To complete this flow-sheet it is necessary to install a new Primary Cleaner Flotation machine, size No. 18, -8 cell Denver Sub A Special similar to the one now in use in our present regrind plant.

In order to regrind the Primary and Secondary rougher concentrate, it will be necessary to utilize our present regrinding unit.

By using this regrinding unit on the White Pine ore, it will be necessary to sacrifice slightly on Copper Range recovery.

Comparing our present thickener area to that of White Pine requirements, our present 24'0" diam. thickener should be of ample size for your tonnage.

Flotation White Pine Ore at Freda MI 11

Flotation White Pine Ore at Freda Mill

In order to have sufficient filtering capacity, we would suggest to install one Oliver, size 14'0" x 18'0" filter, which later can be utilized at the White Pine plant.

We have two spare diaphragm pumps which will be suitable to deliver the thickened concentrate product to the filter.

We have available two vacuum pumps which should be sufficient for the above filter, size 14" x 5" Ingersoll-Rand.

Equipment Needed Other Than What We Now Have

- 2 - 90 ton tanks, 11'0" diam. x 13'3" high, plus cone bottom made by W.B.&I. Co. sheet No. DFI contract No. 4984.
- 2 - Link-Belt rotary ore feeder similar to our present ones.
- 4 - Item No. 1, 3" Wilfley pumps, handling product from primary classifier to primary roughers.
- 4 - Item No. 2, 2" Wilfley pumps handling primary rougher concentrate to primary cleaner flotation machine.
- 1 - No. 18, 8 cell Denver Sub A equipment flotation machine.
- 1 - Item No. 3, 2" Wilfley pump handling primary cleaner concentrate to 24" diam. thickener.

Adams Township, MI

Painesdale, Michigan

Data on our present crushing plant regarding the crushing of an additional tonnage of 1,000 tons per day of White Pine ore and our present 1,200 tons per day of Champion rock.

We plan on using 50% of our present six compartment mine run of rock ore bins for storing rock dumped from Railroad cars. Each compartment has a capacity of approximately 450 tons each.

As we have no spare parts for our present new double impeller impact crusher, I would suggest that we arrange for a spare set of impellers, a complete set of Timken bearings and spare motors for each drive.

Thus with this equipment and minor changes in the chute arrangement so that either primary crusher can be run, we could handle this new tonnage.

So that the ore from each property be treated separately, we would store the -1/4" feed for the mills in the 1,000 ton and 5,000 ton circular storage tanks in the rear of the crushing plant, ready to convey same to our 90 ton ball mill feed tanks.

Treating White Pine Ore at Freda Mill

Copper Range Company
Painesdale, Michigan

- 3 - Item No. 4, 2" Wilfley pumps handling three secondary rougher concentrates and one primary cleaner tail to regrind bowl classifier and regrind plant.
- 1 - Item No. 5, 2" Wilfley pump handling secondary cleaner concentrates to present 24'0" diam. thickener.
- 1 - Oliver filter, size 14' diam. x 18' long and its accessories for complete unit less diaphragm pumps.
- 1 - Item No. 6, 2" Wilfley pumps handling secondary cleaner tails to primary rougher flotation machine.

Treating White Pine Ore at Freda Mill

Treating White Pine Ore at Freda Mill

DATA ON MILLING 1000 TONS OF WHITE PINE ORE AT THE CHAMPION MILL AT FREDA, MICH.

I would suggest that we complete our installation of two additional 90 ton ore bins with proper rotary feeders on mill units No. 2A and 3A as this would give us a reasonable milling storage capacity which is quite necessary.

In order to mill 1000 tons of White Pine ore per day we are planning on using three of the present Copper Range milling units. No. 2 unit with 8'0" x 54" ball mill, unit 2A with an 8'0" x 72" ball mill and unit 3A with an 8'0" x 72" ball mill.

Units No. 2 and 2A are now equipped with type DSFXM Dorr classifiers size 6'0" x 28'6", set on a slope of 2-9/16" per foot.

Unit 3A is equipped with type 72" Akins SDPH type I classifier, set at a slope of 3-3/4" per foot.

With this excessive classifier slope it may be difficult to cut at 85% minus 200 mesh product.

With our present classifier hook-up on Champion rock we cut at 65% to 70% at minus 200 product; therefore I think it advisable to consult the Dorr Co. regarding what minor alteration may be necessary to attain the proper cut with our present hook-up.

No. 2 and 2A units are now equipped with two 12 cell No. 24 Denver Sub A flotation machines.

No. 3A unit is now equipped with a 14 cell No. 21 Denver Sub A flotation machine.

Refer to flow-sheet drawing No. W-389.

To complete this flow-sheet it is necessary to install a new Primary Cleaner Flotation machine size No. 18, -8 cell Denver Sub A Special similar to the one now in use in our present regrind plant.

In order to regrind the Primary and Secondary rougher concentrate it will be necessary to utilize our present regrinding unit.

By using this regrinding unit on the White Pine ore it will be necessary to sacrifice slightly on Copper Range recovery.

Comparing our present thickener area to that of White Pine requirements our present 24'0" diam. thickener should be of ample size for your tonnage.

In order to have sufficient filtering capacity we would suggest to install one Oliver, size 14'0" x 18'0" filter, which later can be utilized at the White Pine plant.

We have two spare diaphragm pumps which will be suitable to deliver the thickened concentrate product to the filter.

We have available two vacuum pumps which should be sufficient for the above filter, size 14" x 5" Ingersoll-Rand.

EQUIPMENT NEEDED OTHER THAN WHAT WE NOW HAVE

- 2 - 90 ton tanks, 11'0" diam. x 13'3" high, plus cone bottom made by W.B. & I. Co. sheet No. DFl contract No. 4984 -
- 2 - Link-Belt rotary ore feeder similar to our present ones.
- 4 - Item No. 1, 3" Wilfley pumps, handling product from primary classifier to primary roughers.
- 4 - Item No. 2, 2" Wilfley pumps handling primary rougher conc. to primary cleaner flotation machine.
- 1 - No. 18, 8 cell Denver Sub A equipment flotation machine.
- 1 - Item No. 3, 2" Wilfley pump handling primary cleaner conc. to 24" diam. thickener.

Adams Township, MI

Data on our present crushing plant regarding the crushing of an additional tonnage of 1,000 tons per day of White Pine ore and our present 1,200 tons per day of Champion rock.

We plan on using 50% of our present six compartment mine run of rock ore bins for storing rock dumped from Railroad cars. Each compartment has a capacity of approximately 450 tons each.

As we have no spare parts for our present new double impeller impact crusher I would suggest that we arrange for a spare set of impellers, a complete set of Timken bearings and spare motors for each drive.

Thus with this equipment and minor changes in the chute arrangement so that either primary crusher can be run we could handle this new tonnage.

So that the ore from each property be treated seperately, we would store the -1/4" feed for the mills in the 1,000 ton and 5,000 ton circular storage tanks in the rear of the crushing plant, ready to convey same to our 90 ton ball mill feed tanks.

Treating White Pine Ore at Freda Mill

- 3 - Item No. 4, 2" Wilfley pumps handling three secondary rougher concentrates and one primary cleaner tail to regrind bowl classifier and regrind plant.
- 1 - Item No. 5, 2" Wilfley pump handling secondary cleaner concentrates to present 24'0" diam. thickener.
- 1 - Oliver filter, size 14' diam. x 18' long and its' accessories for complete unit less diaphragm pumps.
- 1 - Item No. 6, 2" Wilfley pumps handling secondary cleaner tails to primary rougher flotation machine.

Flotation White Pine Ore at Freda Mill

Adams Township, MI

Copy

... H. GORDON, PRESIDENT

RECEIVED

JAN 20 1943

Ans'd

Filed

Copies

January 18, 1943

Mr. T. B. Counselman
 % The Dorr Company, Inc.,
 221 N. LaSalle St.,
 Chicago, Illinois

Friend Mr. Counselman:

We are laying plans to possibly treat 1200 to 1500 tons of White Fine Ore in our Copper Range Milling Plant at Freda, Michigan. Therefore we would like your recommendations on the proper size thickener to handle the primary rougher concentrates and the primary cleaner flotation tails of three of our regular milling units.

On the White Fine layout you proposed a 75 ft. scavenger thickener for 10,000 tons treated per day. What size would be required here? The flow sheet will be similar to that of White Fine but on a reduced tonnage basis.

We are planning on using our existing 24 ft. diameter thickener to serve this tonnage and layout as a concentrate thickener. We figure and assume that it is adequate for this tonnage. Kindly advise.

We are going to use the ball mills that are equipped with your type DDFM Dorr classifiers which are set at 2-9/16" per foot. Without any radical changes can we adjust these classifiers to classify at 80% to 85% minus 200 mesh and still maintain a fairly high grinding tonnage to meet our requirements? I should like your recommendation on this subject.

I presume that in order to get full data on the above you will arrange to drop in to see me, otherwise I shall expect you to quote on a thickener and state time of delivery and the other recommendations.

T. B. Engels
 Superintendent

Mining White Fine Ore at Freda MI

Copy

January 18,

COPPER RANGE CO.	
1943 H. SCHACHT, PRESIDENT	
RECEIVED	
JAN 20 1943	
Ans'd	
Filed	
Copies	

Denver Equipment Company
Denver, Colorado

Dear Sirs:

We are planning on some additions to our Milling Plant and have in mind one of your flotation units.

Kindly quote us on one No. 18, Special Denver Sub A, 8 cell low head type flotation machine fully equipped with motors and their fixed drives. Our electric current is A.C., 60 cycle, 3 phase, 220 volt. I presume the motors furnished will be G.E. or Westinghouse (or their equal) and fitted with proper starting switches with line protection.

I should like your bids to cover the cost of an all steel machine and state in your proposal what material (for long life and wear) will be used in the impellers.

If your engineer is in this vicinity I shall be pleased to go into detail as to the service that this machine will be used for and get his recommendation.

State price and date that delivery could be made.

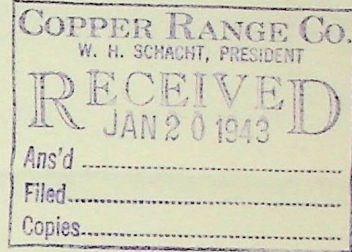
M. P. Engels
Superintendent

King White Pine Ore at Freda Mill

Copy.

January 18, 1943

Link-Belt Company
300 W. Pershing Road,
39th Street,
Chicago, Illinois



Dear Sir:

We are planning on some extra equipment at our Milling Plant and would like to have you submit bids on:

- (3) Three 20" diameter by 24" wide rotary feeders, as per your drawing CO-53790, sent us June 15, 1937
- (3) Three 1/4" steel rotary feeder chutes with angle stiffeners.
- (3) 2-7/16" diameter drive shaft with keyways and keys, safety collars, two rigid angle bearings with grease cups having alemite fittings on top and three 20" diameter by 24" S.F.D.A. cast iron pulleys.

The drive equipment for these rotary feeders consists of RC-120 silverlink roller chain between the feeder shaft (10 r.p.m.) and reducer slow speed shaft.

These Link-Belt encased single reduction worm gear reducers having the proper gear ratios and with an RC flexible coupling in oil retaining revolving casing for direct connection between high speed shaft and motor; and a 3 h.p. 1160 or 1200 r.p.m. G.E. (or equal make) open squirrel cage induction type motor wound for 220 volt, 3 phase, 60 cycle A.C. current and with push button operated across the line type plain magnetic starter similar to our order C.M. 19859 your contract K-9523.

Send drawing and full bill of material of your bid on same and time delivery that could be made, positively.

If your Mr. A.K. Schifflin, Engineer, is in this territory he might drop in.

A.L. Engels
Superintendent

Waiting White Pine Ore at Freda Mill

copy

January 18, 1943

A. R. Wilfley & Sons, Inc.
633 Denham Building
Denver, Colorado

COPPER RANGE CO.	
W. H. SCHACHT, PRESIDENT	
RECEIVED	
JAN 20 1943	
Att'd	
Filed	
Copies	

Dear Sirs:

We are planning some additions to our present Milling plant for increased tonnage and will possibly be in the market for a number of sand and concentrate pumps, ranging in size from 2", 3" and 5" with maximum lift not exceeding 30 ft. I should like your quotations on sub base mountings.

- One (1) size 5" pump direct connected motor driven pump.
- Four (4) size 3" pumps direct connected motor driven.
- Alternate (4) size 5" pumps, belt drive.
- Ten (10) size 2" pumps direct connected motor driven.
- Alternate (10) size 2" pumps belt drive.

Prices on spare parts for the above pumps.

Kindly quote prices and what delivery we could expect. If possible send your catalogue and such B/P's we would require.

Our power is A.C., 60 cycle, 3 phase, 220 volt.

Yours very truly,

W. H. Engels
Superintendent

King White Pine Ore at Freda Mill

Adams Township, MI

January 18, 1943

Copy

Wisconsin Bridge And Iron Co.
5023 North 35th Street,
Milwaukee, Wisconsin

COPPER RANGE CO.
W. H. SCHACHT, PRESIDENT
RECEIVED
JAN 20 1943
Ans'd
Filed.....
Copies.....

Dear Sirs:

In July 18th 1933, contract No. 4984 sheet No. DF-1 you fabricated and installed for us some 90 ton fine ore tanks, about 11'0" diameter by 13'3" high with cone bottoms, onto which were fitted Link-Belt feeders.

We are now planning an increase in our output and shall be pleased to have your quotations on two (2) similar tanks, installed.

Please quote prices and what delivery could be made.

Yours very truly

W. H. Schacht
Superintendent

King White Pine Ore at Freda Mill