

INTERNATIONAL SMELTING AND REFINING COMPANY

WHITE LEAD DEPARTMENT

EAST CHICAGO, INDIANA

ANNUAL REPORT

YEAR 1943

PNYC00001625

INTERNATIONAL SMELTING AND REFINING COMPANYWHITE LEAD DEPARTMENTEAST CHICAGO, INDIANASUMMARY OF WHITE LEAD PLANT OPERATIONSYEAR 1948PRODUCTION:

Total production of White Lead for year	3,818 tons
Total production of Betts Lead for year	1,108 "

The plant operated during the year at the following rates:

January	1st to January	24th	24.9 tons daily rate
January	25th to January	29th	Change-over to Betts Plant
January	30th to February	28th	16.3 tons daily rate *
March	1st to May	31st	Shut-down
June	1st to July	24th	19.2 tons daily rate
July	25th to August	3rd	Change-over to Betts Plant
August	4th to September	6th	18.2 tons daily rate *
September	7th to September	12th	Change-over to White Lead Operation
September	13th to September	30th	14.3 tons daily rate
October	1st to December	31st	20.9 tons daily rate

* Betts Plant operation - average daily rate pertains to net Cathode Lead produced.

Due to restrictions placed on the production of White Lead by the United States Government, the White Lead Plant was operated as a Betts Plant for approximately two months, to meet Bismuth Commitments. The first Betts Plant operation during February was limited by the lack of supply of high bismuth bullion at East Chicago. The second Betts operation, scheduled for August and September, was terminated when government restrictions were lifted to permit additional production of White Lead.

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1. On August 2, 1945 Conservation Order M-384 was revised to read 20% of the base period use.
2. On September 14, 1945, Directive 1 to Conservation Order M-384 permitted the use during September of an additional 1/3 of 20% of the base period use, or 6-2/3% increase. Total permitted use during the third quarter amounted to 26-2/3%.
3. On October 19, 1945 Conservation Order M-384 was revised to read 55% of the base period use.

Average operating data for the year was as follows:

Average daily production rate	17.3 tons
Average amperes	4,865
Average current density, amperes/sq. ft.	35.28
Average pounds of Betts Lead/D.C. Kilowatt hour	6.73

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Sheet #3 - Summary of White Lead Plant Operations - Year 1945

NEW EQUIPMENT INSTALLED DURING THE YEAR:

No new equipment was installed during the year, although extensive repair work was done on existing equipment.

LABOR:

No changes made in base rates for the year.

Minimum number of direct and indirect hourly employees	April 30th	21
Maximum number of direct and indirect hourly employees	December 31st	55
Average number of direct and indirect hourly employees	40.4	Avg. hrs. worked/week 41.4
Average number of direct and indirect salary employees	14.9	Avg. hrs. worked/week 44.0

Labor Shortage:

The labor shortage continued critical for approximately the first nine months of the year. Women employees comprised about 45% of the operating force for that period. During the fourth quarter, returning ex-service men who were former employees, eased the situation considerably. At the end of the year, 25% of the operating force was composed of women. The labor outlook for 1946 is favorable.

ELECTRIC POWER:

All power was purchased from the Northern Indiana Public Service Co.	
Total Kilowatt hours for year	3,657,034
Average cost for year per A.C.K.W. Hour	0.009970
" " " " " D.C.K.W. Hour, delivered to calls	0.011969
Total Kilowatt hours consumed during White Lead Operations	3,141,496
Total Kilowatt hours consumed during Betts Lead Operations	452,612
Total Kilowatt hours consumed during Shut-down Period	62,926

FUEL:

Total amount of coal used during year at boiler house	4,255* tons
Average cost per ton	\$ 4.137

* 70.99% of steam generated was used by other departments for heating.

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Sheet #4 - Summary of White Lead Plant Operations - Year 1945

OPERATING COSTS:

Average production cost per ton of White Lead, including Shut-down Expense and cost of repairs made during Shut-down Period	\$ 32.513
Average production cost per ton White Lead, including cost of repairs made during Shut-down Period	47.177
Average production cost per ton White Lead, exclusive of Shut-down Expense and cost of repairs made during Shut-down Period	43.339
Average pounds of metallic lead charged per pound of White Lead produced	.8008
Average production cost per ton Betts Lead	40.093

<u>White Lead</u>	<u>Per Pound</u>	<u>Per Ton</u>
Average net sales price less cash discounts	7.722¢	\$ 155.84
Average production cost of goods sold	7.414¢	\$ 148.28
Less Depreciation	.215	4.30
Average operating margin	.893¢	\$ 11.86
Less: Selling Expense	.440¢	\$ 8.80
Agency Stock Expense	.042	.84
General Expense (Selling)	.018	.36
Shut-Down Expense	.281	5.62
	.781	15.62
	.128¢	\$ 3.76
Add Depreciation back in	.215	4.30
Average loss for year	.403¢	\$ 8.06
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Note: Total White Lead sold during year 7,250,421 Pounds

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Sheet #5 - Summary of White Lead Plant Operations - Year 1948

MAJOR EXPENDITURES:

A summary of the major items of cost for the year is given below:

<u>Item</u>	<u>Total Cost</u>	<u>% of Total Cost</u>
Pay Roll Labor	\$ 88,068.89	35.987
Salaries	44,340.32	18.043
Coal	5,950.44	2.430
Acetic Acid	3,844.81	1.448
Soda Ash	722.61	.285
Barrels	983.16	.401
Bags	7,576.85	3.093
Glue	240.00	.098
Crucibles	32.22	.012
Hydrofluosilic Acid	556.62	.222
Electricity	36,440.09	14.887
Lime	2,091.90	.854
Taxes (Property)	3,913.01	1.593
Unemployment Insurance Tax	1,345.83	.509
Old Age Annuity Tax	1,345.83	.509
Insurance	1,054.76	.422
Group Insurance	749.06	.304
Depreciation	29,193.49	8.245
Repair Supplies	17,179.91	7.015
Other Items	8,586.98 *	3.504
	<u>\$ 244,917.18</u>	<u>100.000</u>
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* This figure represents a total miscellaneous cost of \$30,103.85 less \$21,522.87 Anode Washing Allowance.

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Sheet #6 - Summary of White Lead Plant Operations - Year 1948

A break-down of the major items of cost by Operation is given below:

	White Lead Operation		Batts Lead Operation		Shut-Down	
	Cost	% of Total Cost	Cost	% of Total Cost	Cost	% of Total Cost
Pay Roll						
Labor	\$ 62,900.06	34.944	\$19,200.22	43.222	\$ 8,908.51	29.001
Salaries	27,286.28	15.148	8,111.68	18.290	8,843.36	43.408
Coal	8,430.84	3.028	-	-	800.40	2.484
Acetic Acid	3,846.51	1.949	-	-	-	-
Soda Ash	722.61	.401	-	-	-	-
Barrels	908.16	.546	-	-	-	-
Bags	7,576.58	4.206	-	-	-	-
Glue	-	-	240.00	.540	-	-
Gaulas	-	-	22.22	.074	-	-
Hydrofluosilic Acid	-	-	886.62	1.933	-	-
Electricity	28,881.94	16.381	4,888.25	10.873	1,097.98	5.389
Linen	2,891.90	1.161	-	-	-	-
Taxes						
(Property)	2,196.98	1.220	115.52	.256	1,602.71	7.867
Social Security						
Taxes	1,681.96	.964	815.82	1.161	263.88	1.442
Insurance	1,881.49	.667	195.46	.442	388.87	1.894
Depreciation	18,428.97	9.114	-	-	3,776.82	18.336
Repair Supplies	18,979.99	8.872	1,199.92	2.721	-	-
Other Items	1,474.76	.819	8,146.77	20.890	2,038.35	9.991
	<u>\$188,120.20</u>	<u>100.000</u>	<u>\$44,422.28</u>	<u>100.000</u>	<u>\$20,573.69</u>	<u>100.000</u>

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INTERNATIONAL CHEMISTING AND REFINING COMPANYWHITE LEAD DEPARTMENTSUMMARY OF WHITE LEAD PLANT OPERATIONSYEAR 1945METALLURGICAL BALANCE

		<u>Metallie Lead Pounds</u>	<u>White Lead Pounds</u>
Anode Lead			
Receipts (new)		19,694,626	
Loss Returns: Scrap Anodes	4,438,449		
Rejects	63,689		
Dirty White Lead	22,200		
Dirty Lead-in-Oil	1,198		
Oliver Filter Cake	28,880	4,861,072	
Net Receipts		6,125,844	
Anodes on Hand, January 1st, 1945 -		221,006	
		6,426,850	
Anodes on Hand, December 31st, 1945		221,006	
Lead Charged		6,125,844	7,672,804
In Process, January 1st, 1945		172,226	218,126
		6,298,070	7,890,930
<u>In Process December 31st, 1945</u>			
Settling System, etc.	180,800	226,000	
In Bismuth Slimes	2,879	2,899	
Losses Manufacturing	18,262	12,215	
Losses in Bismuth Slimes	8,838	11,087	223,901
Production		6,668,426	7,658,796

$7,658,796 \div 6,125,844 = 1.25$ pounds of White Lead produced per pound of metallic lead charged.

Percent of Losses Per Pound
Metallic Lead Treated

Manufacturing	0.1675
In Bismuth Slimes	0.1405

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INTERNATIONAL SMELTING AND REFINING COMPANYWHITE LEAD DEPARTMENTEAST CHICAGO, INDIANAWHITE LEAD PLANT

<u>YEAR</u>	<u>CAPITAL INVESTMENT*</u>	<u>PROFIT</u>	<u>LOSS</u>	<u>NET</u>	<u>PER CENT RETURN</u>
1920	430,570.00		71,571.25		16.20
1921	530,512.25		230,001.74		44.80
1922	543,512.25	7,460.37			1.37
1923	546,772.02		25,931.30		4.75
1924	547,002.71	37,499.00			10.81
1925	550,999.59	37,772.45			10.34
1926	620,722.19	11,799.71			1.80
1927	675,530.08		70,643.54		10.46
1928	680,761.24	37,412.77			3.34
1929	710,309.30	31,431.56			7.30
1930	720,200.00		6,300.00		.80
1931	720,200.00	36,904.23			5.15
1932	720,200.00	24,519.33			3.40
1933	723,615.60	34,670.42			7.00
1934	721,311.74	30,004.37			7.32
1935	742,322.53	64,902.64			11.42
1936	772,021.27	36,922.00			7.36
1937	810,202.37		33,479.33		6.43
1938	815,442.25		15,909.75		2.31
1939	820,004.25	41,004.64			4.82
1940	852,541.31	30,765.22			3.61
1941	857,202.29	72,715.34			8.39
1942	836,700.21		9,379.73		1.07
1943	899,200.10		15,304.93		1.68
1944	906,024.26		3,900.00		0.43
1945	906,024.26		20,261.97		3.23
Total Investment and Return to Date	\$906,024.26	\$703,054.20	\$340,011.31	\$125,042.67	12.00

* No allowance made for depreciation for the period 1920 to 1945, inclusive.
Depreciation charges totalled \$613,156.00.

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INTERNATIONAL SHELTERING AND REFINING COMPANYWHITE LEAD DEPARTMENTEAST CHICAGO, INDIANALEAD-IN-OIL PLANT

<u>YEAR</u>	<u>CAPITAL INVESTMENT</u>	<u>PROFIT</u>	<u>LOANS</u>	<u>INT</u>	<u>PER CENT RETURN</u>
1932	1,844.86	878.81			36.97
1933	1,844.86	7,800.18			428.44
1934	4,026.85	24,015.45			596.39
1935	4,026.85	20,328.31			504.82
1936	17,089.84	8,089.95			47.34
1937	17,089.84	17,820.77			102.58
1938	17,089.84	12,821.08			71.80
1939	17,089.84		48,596.86		284.95
1940	17,089.84		4,525.74		26.44
1941	17,930.20		8,024.52		23.02
1942	24,880.77	1,489.48			5.96
1943	25,380.85		1,794.67		6.81
1944	25,380.85		2,923.44		11.64
1945	25,380.85		17,870.40		67.82
1946	25,380.85	18,089.40			38.29
Total Investment and Return to Date	\$25,380.85	\$102,174.08	\$68,931.35	\$21,242.75	80.61

[Signature]
Plant Manager

as 2/12/46

cc: Mr. J.R. Robbins
Mr. R.E. Dwyer
Mr. F. Laist ✓

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