



Smithsonian
National Museum of American History
Kenneth E. Behring Center

Guide to Nordberg Manufacturing Company Collection

NMAH.AC.0975

Alison Oswald

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Nordberg Manufacturing Company Collection
Identifier:	NMAH.AC.0975
Date:	1891-1947
Extent:	45 Cubic feet (58 boxes, 110 map-folders)
Creator:	Nordberg Manufacturing Company
Language:	English .

Administrative Information

Acquisition Information

Immediate source of acquisition unknown.

Ownership and Custodial History

Transferred from Division of Work and Industry to the Archives Center, 2006.

Separated Materials

The Division of Work and Industry holds related Nordberg Manufacturing Company objects that include a builders plate and calipers. See Accession #1984.0243.

Related Materials at the National Museum of American History

Division of Work and Industry

The Division holds a photograph of the Nordberg diesel type oil engine at the Central Station Burro Mountain Copper Company Power House. Related artifacts include a builders plate and calipers. See Accession #: 1984.0243

Smithsonian Institution Libraries Trade Literature Collection

The libraries hold trade literature relating to Nordberg Manufacturing Company, Chain Belt Company, Rexnord, Inc.

Michigan Technological University, J.R. VanPelt and Opie Library

Nordberg Manufacturing Company Engineering Blueprints Collection, circa 1890-circa 1946
220.0 cubic ft.

Blueprints, circa 1890-circa 1946, of the Nordberg Manufacturing Company of Milwaukee, Wisconsin. Includes blueprints of valve engines, pumps, hoists, compressors, and similar equipment, much of which was used by mining companies in Michigan's Upper Peninsula.

Wisconsin Historical Society Library and Archives

Nordberg Manufacturing Company photographs, circa 1910-1970s

182 photographs and 4.0. c.f. of negatives (10 archives boxes).

Photographs and negatives, circa 1910-1970s, related to the Nordberg Manufacturing Company of Milwaukee, Wisconsin. Images include views of heavy machinery used in the manufacture of mine hoisting engines and aerial views of the manufacturing company. The collection also includes an album of photographs made in the manufacturing plant of the company of Corliss and Poppett valve steam engines.

Processing Information

Collection processed by Alison Oswald, archivist, 2017.

Preferred Citation

Nordberg Manufacturing Company Collection, Archives Center, National Museum of American History.

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Accruals

Additional collection materials donated in 1979 by Rexnord, Inc., through D. Taylor, president; in 1984 by Rexnord, Inc., through Richard R. Bains, manager, Communications and Training; and in 1995, drawings for the Lakeview Pumping Station in Chicago by Frank Bieberdick.

Historical

The Nordberg Manufacturing Company, founded in 1890 by Bruno V. Nordberg, manufactured steam engines (later diesel engines) and precision built heavy machinery in Milwaukee, Wisconsin. The company later added Poppet valve steam engines, oil engines, railway track maintenance machinery, crushers, machinery for processing ore, mine hoists, blowing engines, condensers, steam pumping engines, and Corliss engines for every type of power service. Nordberg was a leading manufacturer of marine diesel engines and supplied engines for many of the American merchant marine ships.

In 1895, the company elected Jacob Friend as its first president. From 1912-1924, Bruno Nordberg served as president, and in 1924, Robert Friend, son of Jacob Friend, became president. The company purchased the Busch-Sulzer Brothers Diesel Engine Company of St. Louis in 1946, merging two of the largest diesel engine manufacturers.

Scope and Contents

The collection consists of the company's photo and negative archives; miscellaneous trade publications; G. Turnwald notebooks; technical memoranda; trade literature; operating manuals; parts books; Nordberg company history; machinery proposals; order books; time records; Chain Belt Company catalogs; and blueprints used in the shops.

Arrangement

The collection is arranged into ten series.

Series 1: Background Materials, 1912-1957

Series 2: Catalogs/Bulletins, 1891-1972

Series 3: Sales/Order Materials, 1891-1971

Series 4: Advertising Materials, 1911-1955

Series 5: Operating Manuals and Instructions, 1917-1964

Series 6: Technical Memorandum, 1919-1969

Series 7: Turnwald Notebooks, 1928-1942

Series 8: Trade Literature, 1912-1974

Series 9, Photographs, undated

Series 10: Drawings, 1884-1979

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Diesel engines
- Heavy machinery
- Marine engines
- Steam-engines

Types of Materials:

- Blueprints
- Notebooks
- Photographs -- Black-and-white negatives -- Glass -- 19th-20th century
- Trade catalogs

Names:

- Chain Belt Company

Nordberg, Bruno V.

Geographic Names:

Milwaukee (Wis.)

Container Listing

Series 1: Background Materials, 1912-1957

Box 1, Folder 1	Over Half a Century of Progress, 1957
Box 1, Folder 2-4	Nordberg History, 1954
Box 1, Folder 5	A History of the Busch-Sulzer Company, 1912-1913

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Series 2: Catalogs/Bulletins, 1891-1972

Box 1, Folder 6	Chain Belt Company, 1892
Box 1, Folder 7	Chain Belt Company, 1897
Box 1, Folder 7	Chain Belt Company, 1902
Box 1, Folder 8	Chain Belt Company, 1903
Box 2, Folder 1	Chain Belt Company, 1907
Box 2, Folder 2	Chain Belt Company, 1911
Box 2, Folder 3	Chain Belt Company, 1912-1915
Box 2, Folder 3	Chain Belt Company, 1916
Box 2, Folder 4	Chain Belt Company, 1914-1915
Box 2, Folder 5	Chain Belt Company (Chabel Company), 1915
Box 2, Folder 6	Chain Belt Company , 1922
Box 2, Folder 7	Busch-Sulzer Bros. Diesel Engine Company, 1927-1933
Box 3, Folder 1	Link Belt Engineering Company, 1902
Box 3, Folder 2	Morse Chain Company, 1923
Box 3, Folder 3	Rex Chain Belt Company, 1919
Box 3, Folder 3	Rex Chain Belt Company, 1967
Box 3, Folder 4	Nordberg Compressors, 1934
Box 3, Folder 4	Nordberg Compressors, 1972
Box 3, Folder 5	Nordberg Patent Automatic Cut-Off Governor (instructions), undated
Box 3, Folder 6	Nordberg Corliss Engine, undated
Box 3, Folder 7	Nordberg early machinery, Volume 1, 1891-1907

Box 4, Folder 1	Nordberg early machinery, Volume 2, 1894-1911
Box 4, Folder 2	Nordberg Bulletins, Volume 3, 1912-1945
Box 5, Folder 1	Nordberg Bulletins, Volume 4, Numbers 20-49, 1912-1931
Box 5, Folder 2	Nordberg Bulletins, Volume 5, Numbers 50-96, 1932-1940
Box 6, Folder 1	Nordberg Bulletins (special machinery), 1923-1945

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Series 3: Sales/Order Materials, 1891-10-01-1971

The order information (#1-20,000) consists of documents (previously trifolded) detailing orders for engines by companies and organizations. The materials are arranged roughly by order number and include specifications, dimensions, type of engine, and date ordered.

Order Books, 1891-10-01-1945-12-17

Box 6, Folder 2	Chain Belt Company, 1891-10-01-1892-12
Box 6, Folder 3	Nordberg, 1898-1900
Box 6, Folder 4	Nordberg Orders (#8491-12553), 1898-1900
Box 6, Folder 5	Nordberg Orders, 1901-03-27-1945-12-17
Box 7, Folder 1	Time Record, 1900-03-1903
Box 7, Folder 2	Order Numbers (1-10000), 1895-1897
Box 7, Folder 3	Order Numbers (10000-14000), 1899-1902
Box 7, Folder 4	Order Numbers (14000-15500), 1900
Box 8, Folder 1	Order Numbers (15500-17000)
Box 8, Folder 2	Order Numbers (17000-18000)
Box 8, Folder 3	Order Numbers (18000-18700)
Box 8, Folder 4	Order Numbers (18700-19500)
Box 8, Folder 5	Order Numbers (19500-20000)
Box 9, Folder 1	Company data book (includes operational procedures), 1968-1971
Box 9, Folder 2	Sales book, 1906-1913
Box 9, Folder 3	Prices, 1962-1971
Box 9, Folder 4	Testimonials about Nordberg equipment, 1926-1927
Box 10, Folder 1	Testimonials about Nordberg equipment, 1934-1937

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Series 4: Advertising, 1911-1955

This series consists of bound volumes of advertisements, newspaper clippings, articles, and publicity photographs about Nordberg Manufacturing. The materials are arranged chronologically.

Box 52, Item 1	Scrapbook of R.W. Bayerlein, 1926-1948
Box 15, Folder 1	Advertisements, 1946-1948
Box 15, Folder 2	Advertisements, 1948-1955
Box 15, Folder 3	Advertisements, circa 1950s
Box 53, Item 1	Nordberg Publication Advertising, 1911-1923
Box 54, Item 1	Nordberg Publication Advertising, 1924-1926
Box 55, Item 1	Nordberg Publication Advertising, 1927-1929
Box 56, Item 1	Nordberg Publication Advertising, 1930-1932
Box 57, Item 1	Nordberg Publication Advertising, 1923-1943

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Series 5: Operating Manuals/Instructions, 1917-1964

Box 10, Folder 2	Diesel and Oil Engineering Handbook, 1924
Box 10, Folder 3	Nordberg Diesel Engine TS-17, [1930s]
Box 10, Folder 4	Nordberg SCV Air Compressor, 1938
Box 10, Folder 5	Nordberg-Todd Uniflow Engine, 1926
Box 10, Folder 6	Nordberg Two Cycle Diesel Engines, 1925
Box 10, Folder 7	Nordberg Uniflow Engines, 1925
Box 10, Folder 8	Operating and Maintaining Nordberg Marine Diesel Engines, 1944
Box 10, Folder 9	Two Cycle Mechanical Injection Diesel Engine, Type TS, 1937
Box 10, Folder 10	Two Cycle Air Injection Diesel Engines Type TA, 1939
Box 11, Folder 1	CAM setting instructions for Skinner Marine uniflow steam engine, 1942
Box 11, Folder 2	Uniflow engine, 1935
Box 11, Folder 3	Nordberg Diesel engine (parts list), 1937
Box 11, Folder 4	Nordberg Power Chief Diesel Engine , [1958?]
Box 11, Folder 5	Nordberg Diesel Engine (parts list), 1946
Box 11, Folder 6	Nordberg 4-Cycle V-Type Diesel Engine, 1959
Box 11, Folder 7	Installation and Service Manual, 1953-1964
Box 12, Folder 1-2	Installation and Service Manual, 1953-1954
Box 12, Folder 3	Section drawing of rotary diesel engine, undated
Box 12, Folder 4	Expansion engine test, 1935
Box 12, Folder 5	Specifications, data and prices for 9 x 11 1/2" diesel engines, 1947
Box 12, Folder 6	Compressor engineering data, undated

- Box 12, Folder 7 Gas compressor data, carbide and carbon chemicals, 1935
- Box 12, Folder 8 Gear drive schematic drawings, 1917-1929
- Box 12, Folder 9 Photomicrographic study of sulfide effect on cylinders liners, 1960

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Series 6: Technical Memoranda, 1919-1969

Box 13, Folder 1	SC vertical compressor, 1947
Box 13, Folder 2	Steam engine compressors, 1930-1950
Box 13, Folder 3	Triple expansion engine, critical speed balance, 1930-1933
Box 13, Folder 4	Valve spring compressors, piston rings springs, 1960-1969
Box 13, Folder 5	Technical Memorandum, #4-#18, 1929-1931
Box 13, Folder 6	Technical Memorandum, #36-#79, 1930-1937
Box 13, Folder 7	Technical Memorandum, #73-#313, 1937-1942
Box 13, Folder 8	Technical Memorandum, #317-#426, 1944-1947
Box 14, Folder 1	Miscellaneous drawings, 1919-1931

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Series 7: Turnwald Notebooks, 1928-06-1942-05

Wolfgang Turnwald, a German mechanical engineer, was hired by Nordberg Manufacturing Company to refine the design of the uni-flow steam engine. The notebooks contain documentaion about experiments and other tests.

Box 14, Folder 2	W. Turnwald notebook, volume 1, 1928-06
Box 14, Folder 3	W. Turnwald notebook, volume 2, 1929-01
Box 14, Folder 4	W. Turnwald notebook, volume 3, 1930-10-21
Box 14, Folder 5	W. Turnwald notebook, volume 5, 1934-08
Box 14, Folder 6	W. Turnwald notebook, volume 6, 1937
Box 14, Folder 7	W. Turnwald notebook, volume 7, 1939-11
Box 14, Folder 8	W. Turnwald notebook, volume 8, 1942-05

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Series 8: Trade Literature, 1912-1974

Box 16, Folder 1	2 cycle stationary diesel engines, undated
Box 16, Folder 2	4 cycle stationary diesel engines, undated
Box 16, Folder 3	Other machinery, undated
Box 16, Folder 4	General diesel information, undated
Box 16, Folder 5	Other diesel installations, undated
Box 16, Folder 6-7	Marine diesel installations, undated
Box 16, Folder 8	Diesel locomotives, undated
Box 16, Folder 9	General diesel information, undated
Box 16, Folder 10	Municipal installations, undated
Box 17, Folder 1	Municipal power plants, undated
Box 17, Folder 2	Nordberg stern wheel/marine engine, poppet valve compound, 1929
Box 17, Folder 3	Nordberg-Turnwald, compressors, undated
Box 17, Folder 4	Nordberg gas engines, undated
Box 17, Folder 5	Nordberg radial engines, undated
Box 17, Folder 6	Nordberg diesel engines, 1950s
Box 17, Folder 7	Nordberg-Todd uniflow engine, 1921
Box 18, Folder 1	Nordberg miscellaneous trade literature, undated
Box 18, Folder 2	Nordberg Manufacturing Bulletins, 1912-1930
Box 18, Folder 3	Nordberg Uniflow engine, 1928-1938
Box 18, Folder 4	Nordberg engines, 1955-1960
Box 19, Folder 1	Nordberg Corliss Engine, 1912-1916

Box 19, Folder 2	Nordberg compressor, 1914-1974
Box 19, Folder 3	Nordberg steam engines, 1914-1959
Box 19, Folder 4	Hayes Pump and Machinery Company, undated
Box 19, Folder 5	Woodward Governor Company, undated
Box 19, Folder 6	Articles, 1926-1932
Box 19, Folder 7	Articles, 1934-1943

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Series 9: Photographs, undated

This series contain approximately 26,000 primarily black-and-white prints arranged into groups, #1-#75. Not all groups are represented. Missing are groups #5, #6, #25, #26, #30, #40, #43, #50, #57, and #59. Each grouping defines a specific type of equipment produced by Nordberg. For example, Group #13 contains photographs for compressors and Group #45 contains soak wheels. While most of the photographs are undated, there are images from the early 1940s.

The photographs are primarily images of engines and other equipment manufactured by Nordberg, but also included are exterior views of plant buildings, shop floor views, employees working and/or operating equipment, and vessels such as the USS Electra and USS Bellatrix. Images of women working in the factory, the Red Cross blood donors, and the men's baseball and women's softball teams can be found in Group #47.

An index, arranged numerically, provides identifying information. Many of the photographs have a number on the front (lower right) and reverse of the photograph (at the top and in pencil).

The photographs were taken by Kuhli Photo Service of Milwaukee and Jos. Brown, scenic and commercial photographer of Milwaukee, for Nordberg Manufacturing Company.

Subseries 9.1: Photographs, undated

Box 20, Folder 1	Indices for prints and glass plate negatives, undated
Box 20, Folder 2	Numerical index, undated
Box 20, Folder 3-5	Index by group number, undated
Box 20, Folder 6	Prints and negatives made from decomposing negatives, undated
Box 21, Folder 1	Group 1, engines, simple Corliss, undated
Box 21, Folder 2	Group 2, engines, tandem and compound Corliss, undated
Box 21, Folder 3	Group 3, engines, cross compound Corliss, undated
Box 21, Folder 4	Group 4, engines, twin, triple and special, undated
Box 21, Folder 5	Group 7, engines, poppet valve, undated
Box 22, Folder 1-3	Group 8, engines uniflow, undated
Box 22, Folder 4	Group 9, engines, rocking valve and slide valve, undated
Box 23, Folder 1	Group 10, engines, cylinder valve, gear and governors, poppet valve and Corliss valves, undated
Box 23, Folder 2	Group 11, engine frames, undated

Box 23, Folder 3	Group 12, engines, miscellaneous parts, undated
Box 23, Folder 4	Group 13, compressors, single stage and steam, undated
Box 23, Folder 5	Group 15, compressors, two stage and steam, undated
Box 24, Folder 1	Group 14, compressors, two stage and steam, undated
Box 24, Folder 2	Group 15, compressors, three stage and steam, undated
Box 24, Folder 3	Group 16, compressors, power driven, undated
Box 24, Folder 4=5	Group 17, compressors, gas, undated
Box 25, Folder 1	Group 18, compressors, vacuum, undated
Box 25, Folder 1	Group 19, compressors, self-contained, undated
Box 25, Folder 2	Group 20, compressors, cylinders, valve, gears and governors, undated
Box 25, Folder 3	Group 21, compressors, miscellaneous parts, undated
Box 25, Folder 4	Group 22, blowing engines, steam driven, undated
Box 25, Folder 5	Group 23, blowing engines, power driven, undated
Box 25, Folder 6	Group 27, pumping engines, cross compound, undated
Box 26, Folder 1	Group 28, pumping engines, triple and quadruple, undated
Box 26, Folder 2	Group 29, pumping engines, variable capacity , undated
Box 26, Folder 3	Group 31, pumping engines, miscellaneous parts, undated
Box 26, Folder 4-5	Group 32, hoisting engines, motor driven, undated
Box 27, Folder 1	Group 32, hoisting engines, motor driven, undated
Box 27, Folder 2	Group 33, hoisting engines, geared, undated
Box 27, Folder 3	Group 34, hoisting engines, direct acting with clutches, undated

Box 27, Folder 4	Group 35, hoisting engines, direct acting without clutches, undated
Box 27, Folder 5	Group 36, hoisting engines, cylinders, valve gears and governors, undated
Box 28, Folder 1-2	Group 37, hoisting engines, miscellaneous parts, undated
Box 28, Folder 3	Group 38, condensers, independent jet, undated
Box 28, Folder 3	Group 39, condensers, attached jet, undated
Box 28, Folder 4	Group 41, condenser, counter current, undated
Box 28, Folder 4	Group 42, condensers, surface, undated
Box 28, Folder 5	Group 44, steam stamps, undated
Box 28, Folder 5	Group 45, soak wheels, undated
Box 28, Folder 6	Group 46, concentrators, undated
Box 29, Folder 1-3	Group 47, miscellaneous, undated
Box 30, Folder 1-3	Group 47, miscellaneous, undated
Box 31, Folder 1-4	Group 47, miscellaneous, undated
Box 32, Folder 1	Group 47, miscellaneous, undated
Box 32, Folder 2-4	Group 48, shop prints, undated
Box 33, Folder 1	Group 49, photos of drawings, undated
Box 33, Folder 2-5	Group 52, oil engines, carrels, and other makes, undated
Box 34, Folder 1-4	Group 52, oil engines, carrels, and other makes, undated
Box 35, Folder 1-2	Group 52, oil engines, carrels, and other makes, undated
Box 35, Folder 3	Group 53, marine steam engines, undated
Box 35, Folder 4	Group 54, track machines, undated
Box 36, Folder 1	Group 55, Nordberg butler shovels, undated

Box 36, Folder 2-4	Group 56, marine diesels, undated
Box 37, Folder 1	Group 58, power jack, undated
Box 37, Folder 2-5	Group 60, crushers, cone, undated
Box 38, Folder 1	Group 61, rail drill, undated
Box 38, Folder 1	Group 62, spike puller, undated
Box 38, Folder 1	Group 63, rail grinder, undated
Box 38, Folder 2-4	Group 64, screen feeder, grizzly, undated
Box 38, Folder 5	Group 66, crushers, jaw and impact, undated
Box 39, Folder 1	Group 71, radial gas engines, undated
Box 39, Folder 2	Group 72, spike hammer, undated
Box 39, Folder 3-4	Group 74, small four cycle diesels, undated
Box 40, Folder 1-2	Group 74, small four cycle diesels, undated
Box 40, Folder 3	Group 75, gyratory crushers, undated
Box 40, Folder 4	Prints (numbered), undated
Box 40, Folder 5	Prints (unnumbered), undated
Box 42, Folder 1	Unmounted, retouched photographs, undated
Box 42, Folder 2	Nordberg pumping engines, undated
Box 42, Folder 3-4	Engines, undated
Box 43, Folder 1	Engines, undated
Box 43, Folder 2	Track machinery, undated
Box 43, Folder 3-4	Symons cone crushers, undated

Box 44, Folder 1	Symons disc crushers, undated
Box 44, Folder 2	Symons jaw crushers, undated
Box 44, Folder 3	Symons miscellaneous equipment, undated
Box 44, Folder 4	Miscellaneous, undated
Box 44, Folder 5	Slides, unidentified, undated
Box 44, Folder 6	Diesel engines, undated
Box 44, Folder 7	Diesel engine bases, cylinder supports and beds, undated
Box 44, Folder 8	Busch-Sulzer diesel engine installations, undated
Box 44, Folder 9	Diesel engine valves, rocker arms, pushrods, undated
Box 44, Folder 10	Diesel engine cranks, pistons and connecting rods, undated
Box 44, Folder 11	Diesel engine cylinder heads, undated
Box 44, Folder 12	Nordberg diesel installations, undated
Box 44, Folder 13	Miscellaneous diesel components, undated
Box 44, Folder 14	Cross section drawings of Busch-Sulzer diesel engines, undated
Box 44, Folder 15	Diesel engine cylinder blocks, undated
Box 45, Folder 1	Machining operations, undated
Box 45, Folder 2	Spinning frame, Chemstrand Corp. , undated
Box 45, Folder 3	N.O.L. wind tunnel nozzle, undated
Box 45, Folder 4	Corps. of Engineers, Ft. Randall Intake Gates, undated
Box 45, Folder 5	Wood hydraulic machinery, undated
Box 45, Folder 6	Press #12, Danly Job 925, undated
Box 45, Folder 7	#232, undated

Box 45, Folder 8	#254, undated
Box 45, Folder 9	#276, undated
Box 45, Folder 10	#277-#285, undated
Box 45, Folder 11	#286, undated
Box 45, Folder 12	#306, undated
Box 45, Folder 13	#315, undated
Box 45, Folder 14	#316, undated
Box 45, Folder 15	#318, undated
Box 45, Folder 16	#321-322, undated
Box 45, Folder 17	#323, undated
Box 45, Folder 18	#330, undated
Box 45, Folder 19	#331, undated
Box 45, Folder 20	#332, undated
Box 45, Folder 21	#336, undated
Box 45, Folder 22	#343, undated
Box 45, Folder 23	#352, undated
Box 45, Folder 24	#370, undated
Box 45, Folder 25	#399, undated
Box 45, Folder 26	13", undated
Box 45, Folder 27	FSG-9"-SC, undated
Box 58, Folder 1	Copy prints of equipment and interior factory scenes

Prints made in 1979.

Box 58, Folder 2 Copy prints of equipment and interior factory scenes

Subseries 9.2: Glass plate negatives, undated

29 Glass negatives

Box 48

The glass plate negatives (8" x 10" consist of images of hydraulic presses manufactured by Charles F. Elmes Company of Chicago, Illinois.

Subseries 9.3: Film Negatives, undated

94 Negatives (photographic)

Box 49

Box 50

Box 51

Subseries 9.4: Lantern Slides, undated

54 Glass lantern (3 1/4" x 4")

Box 41

The lantern slides depict diesel engines, Busch-Sulzer works, Nordberg engines, assembly shops, and installations. Some of the lantern slides are numbered and captioned, and several are broken. The slides were distributed by A.S. Aloe Company and Parker Bros. Optical Company of St. Louis.

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Series 10: Drawings, 1884-1979

This series consists of blueprints for various Nordberg engines and other equipment purchased by other companies. The drawings are arranged in numerical order, presumably by job number and are referred to as "bunches." The bunches of drawings relate to specific companies and installations of Nordberg equipment. For example, job 21178 is for a blowing engine for the Baltimore and Ohio Company, and job 32148, a hoist for the U.S. Treasury Department.

The drawings range in size from 10" x 24" to 32" x 72" or larger. Some drawings are folded.

Map-folder 1	519, Milwaukee Waukesha Brewing Company/P.V. engine, undated
Map-folder 2	1257, Beebe Manufacturing Company/Poppet valve engine, undated
Map-folder 3	9332, 17335, Bradley Company for Royal Gas Company, McDonald, Pennsylvania/cross compound condenser, undated
Map-folder 4	9434, Highland Boy G. Manufacturing Company, Salt Lake City, Utah/blow engine, undated
Map-folder 5	10578-11892-12432-12461, hoist, undated
Map-folder 6	12032, Tracy Engine Company, San Francisco, California/standard full stroke Corliss, undated
Map-folder 7	13229, New York Glucose Company/Corliss full stroke, undated
Map-folder 8	14225, W.A. Clark/hoist, undated
Map-folder 9	16671, pumps, undated
Map-folder 10	16672, Mathieson Alkai Company/pumps, undated
Map-folder 11	16674, Mathieson Alkai Works/air pump and Corliss, undated
Map-folder 12	16967, Tracy Engineering Company/Corliss full stroke, undated
Map-folder 13	17299, Tracy Engineering Company/Corliss full stroke, undated
Map-folder 14	17609, Tracy Engineering Company/Corliss , undated
Map-folder 15	17795, hoists, undated
Map-folder 16	18110, McDonough Manufacturing Company/Corliss, undated

Map-folder 17	19060, Dr. Miles Medical Company/F.S. valve gear, undated
Map-folder 18	19615, Canadian Cop Company/blowing engine, undated
Map-folder 19	20264-20307, Calumet & Hecla Mining Company/hoist, undated
Map-folder 20	20716, Morgan Company/Corliss, undated
Map-folder 21	20990, Baltimore and Ohio Company, undated
Map-folder 22	21178, Canadian Copper Company/blower engine, undated
Map-folder 23	21550, Calumet and Hecla Mining Company, undated
Map-folder 24	22243, Mond Nickel Company/blower engine, undated
Map-folder 25	23821, Power and Mining Machine Company/air blowing engine, undated
Map-folder 26	23846, Alaska Gold Mining Company/compressor, undated
Map-folder 27	23874, Comp. Met Company, undated
Map-folder 28	23938, Michigan Alkali Company/air cylinder, undated
Map-folder 29	24290, Republic Iron and Steel/hoist, undated
Map-folder 30	26067, Alaska Treadwell Mining Company, undated
Map-folder 31	27093, Tandem General Chemical Company, undated
Map-folder 32	27823-27828, City of Chicago/three vertical pumping engines, undated
Map-folder 33	28980, C.V. Nordberg/reel hoist, undated
Map-folder 34	29235, Quincy Mining Company/hoist, undated Image(s)
Map-folder 35	29237, Quincy Mining Company/condenser for hoist, undated
Map-folder 36	29308, Alaska Treadwell Mining Company/drum hoist, undated
Map-folder 37	29405, Fraser and Chalmers/single drum hoist, undated

Map-folder 38	29733, Sterling Salt, steam hoist, undated
Map-folder 39	29737-29739, Whittaker Glessner Company/Todd uniflow engine, undated
Map-folder 40	29989, Imperial Furniture Company/Corliss, undated
Map-folder 41	30076, Doplex and Carter White Lead Company/P.V. uniflow , undated
Map-folder 42	30080, Alexander and Baldwin/left hand Corliss engine, undated
Map-folder 43	30123, Calmuet and Arizona/double drum hoist, undated
Map-folder 44	30326, Highland Iron and Steel Company/Nordberg Todd uniflow engine, undated
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