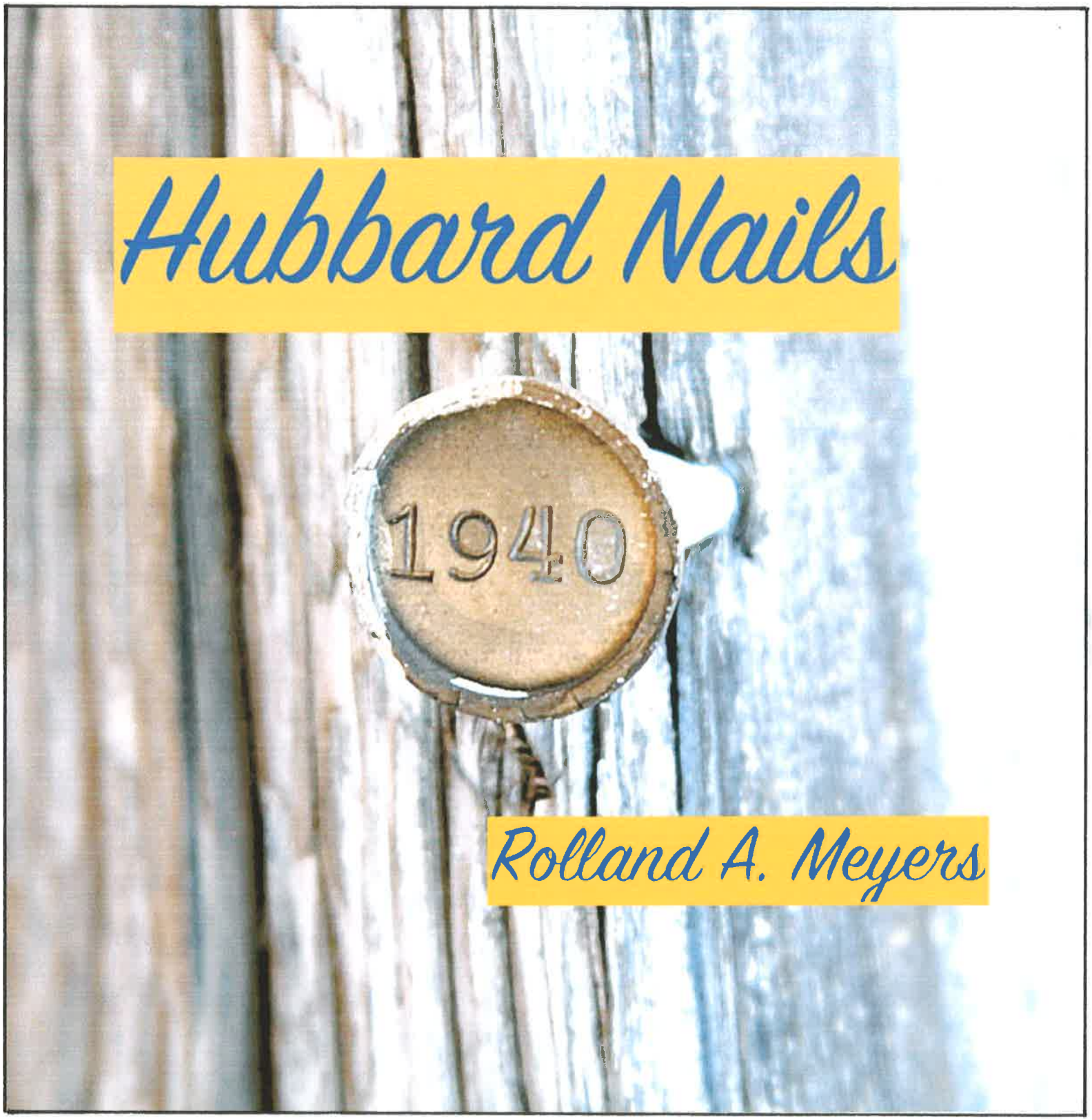
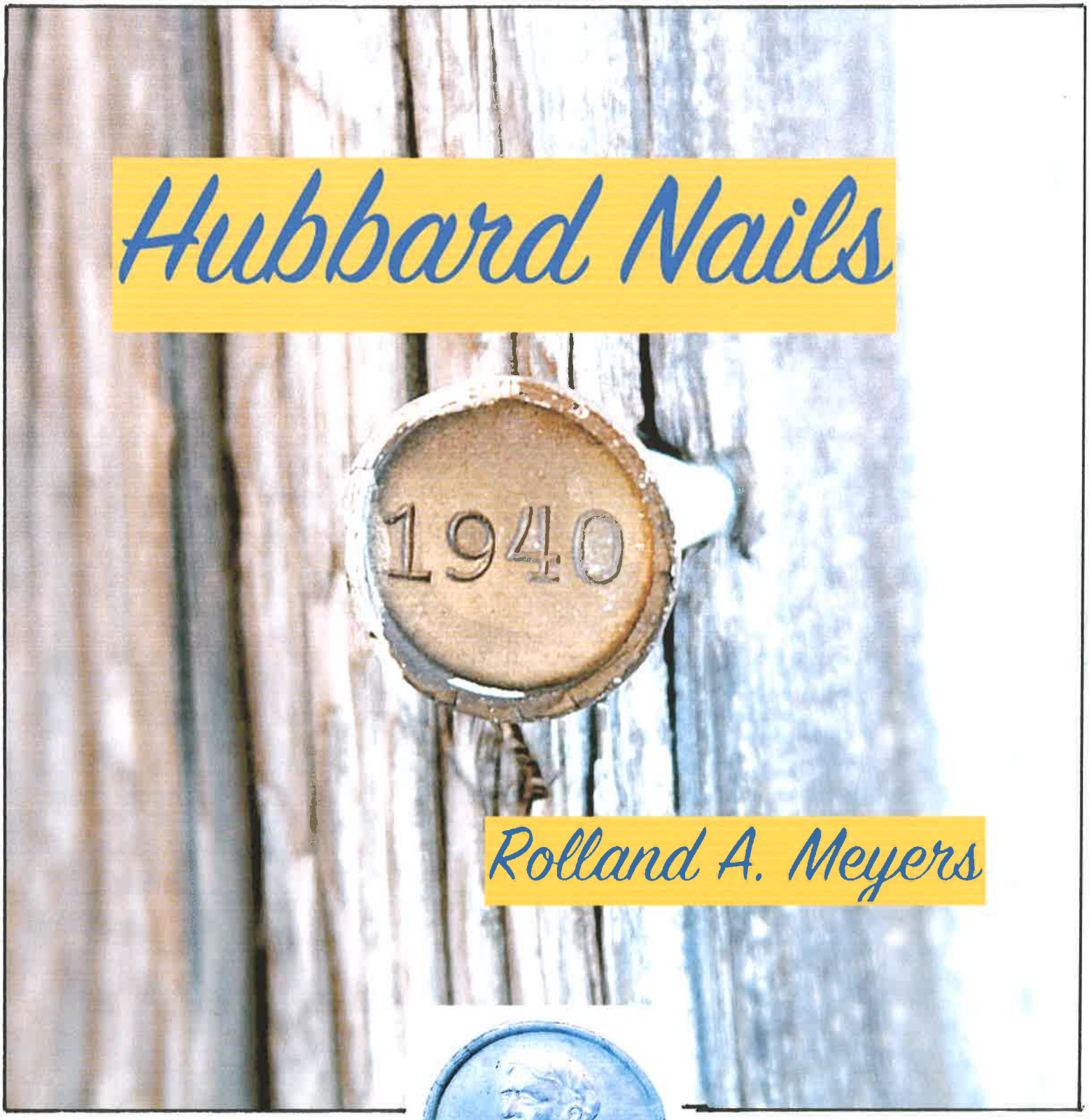


- Special thanks to Jeff Oaks for copying and hosting this book -

Hubbard Nails



Rolland A. Meyers

Special thanks to
Jeff Oaks for copying
and hosting this book

The Hubbard Project

Rolland A. Meyers

This is the last project of three that I took on. Actually four if you count the Canadian Nail history book I did initially. Then came the up-grade of photos and information of known date nails, followed by the up-date of known letter and treatment nails. Finally, and lastly is this effort to up-grade the photos and information known about the Hubbard nails who's use began in the late 1920's.

This last project has been the hardest for several reasons. First and foremost, I do not collect them – other than one or two specific utility sets. I have always been interested in the history of the nail itself and have partnered at least twice with the expert on Hubbard's to try and uncover some of the unanswered questions surrounding this iconic nail. There are still questions that go unanswered and may stay that way. But my sincere thanks to Jerry Penry for his cooperative input over these last ten years or so. He has shared all the data and information that he has uncovered and hopefully I have filled in a few blanks along the way. But there remain several basic unanswered questions about these nails. Without his expertise and information this project could not have been attempted.

I also have to thank the following folks, without whose help this project could never have been attempted. For their generosity in sharing photos/ scans and information I would like to thank Charles Sebesta, Skip Kilpatrick, Bill McClellan, Bill Bunch, Mark Gilles and Scott Weed (whose wonderful WEB page on Hubbard's provided great photos) and those of Don Blake's collection. There are others I know I have overlooked. You know who you are and my apologies for the omission, but also my sincere thanks for your help.

There are a few things I must point out relevant to this book. First, there are no references to "back stamps" for the nails shown. With permission, I did include Jerry Penry's wonderful article on back stamps. This truly helps identify the time frame in which the nails were made, but there are just too many exceptions to the rule and it would require almost double the amount of work and file keeping to include this information as a criteria. Jerry himself admitted that this was one of the main issues deterring him when he thinking about putting together a book on Hubbard's. I have already heard from several Hubbard collectors that it is important to include the back stamp information because there are many cases where there are three or more nails that have the same "face" but different back stamps - hence different years of production. I sympathize with this argument but decided not to include the back stamp information for each nail. Lastly, I have not included those nails

that are "quasi- Hubbard's" and some call them "proto-type Hubbard's." They include the two-piece nails primarily used by Detroit Edison. Basically a nail with a Hubbard type washer. The other nail not included is the Hubbard that has been ground down to the point that the rim has been removed and the surface of the nail is smooth with the information on it. There are several examples of this type of nail but again, I chose not to include those.

Hopefully, at some point, someone else will take these two nails on and write a book about them? See photo below showing the two nails to which I am referring.

Next comes the incoming rock deflection. The "I woulda, I coulda, you shoulda" comments. I expect those, as I know this is in no way a complete Hubbard Book. So it is my hope that those taking the time to look this book over will spot errors. Errors once written are very hard to undo and take on a life of their own. So if you have information that would correct an error please by all means be specific and let me know and I can make that correction known to all. Of course, if you have photos/scans of nails not shown, please send those with the pertinent information on them. (Size/metal/user).

For the most part I have not included hand stamped Hubbard nails unless I am almost positive I know who used them. There are literally thousands of hand stamped Hubbard nails. Only a small portion of those are shown in this book.

Please send corrections and/or scans and photos to:

Rolland Meyers 33 Ramona Ave. Oakland, CA 94611 510 658 5221
<rolland@rollandmeyers.com>

You will notice the cost of this book is cheap.....as in free! It did cost me in time, frustration, $everal dollar$ worth of ink cartridge$ and glue sticks, but I did this project in the hope it will capture what we do know about these nails that are no longer being made and perhaps stimulate others to carry on and improve on this. Again, my sincere thanks to those of you who did step up and help and abided my constant prodding. *.....Rolland*

One More Time – Trying To Trace The Hubbard's

Rolland A. Meyers

Well, once again I tried to trace the history of the Hubbard nails and pretty much hit the same brick wall that both I and Jerry Penry had hit before. But I think it might be useful here to list what is known so far. First and foremost is the fact that no one in all their searches thus far has been able to find a Patent or original schematic drawing of the "Hubbard" nail. There are some very interesting connections that I found while trying to find a Patent on these nails. On many Hubbard & Co. products the Trademark is the Shield H, and the Trade Name used is PEIRCE. PEIRCE was also the Trade Name for N. Slater Cop. Ltd. Of Hamilton, Ontario, Canada. On October 2, 1909, Hubbard & Co. of Pittsburgh, PA purchased the C.L, Peirce Jr. Specialty Co. of Elkart, IN. He was the ex-President of this company and became the head of the new department at Hubbard. But in my searches I could find no mention of a "Hubbard" or a "Peirce" nail and no drawings or Patents.

In 1922 the Seyler Manufacturing Co. built a brand new facility in Pittsburgh, PA. Its President, C.P. Seyler was a former Vice President and General Manager of Hubbard & Co. His Sales Engineer was also from Hubbard. They manufactured pole line supplies and galvanized metal products and the tie to the Hubbard Co. and their manufacturing of products for Hubbard to market was obvious. The first catalog I have for Seyler is 1942 – quite a few years from 1922, but it shows the Hubbard Nails being offered as well as other items being marketed by Hubbard & Co.

The first known "Hubbard Nail" is a 1927 "KP&L" (Knoxville Power & Light -TN) and is copper. The first known aluminum Hubbard is the 1930 "NWPS Co." (Northwest Public Service-SD). Jerry Penry has examples of each.

In 1950 Hubbard Aluminum Products Co. (HAPCO) was created. It specialized in the production of poles and fixtures but I can find no direct connection to the manufacture of the nails in the several attempts I have tried.

In 1954 Hubbard & Co. was sold to Charles H. Dyson and became the Dyson Corporation. But relatives of John W. Hubbard (one of the previous owners) litigated and for four years it was battled in court, finally resulting in the demise of the company.

In the 1940 John Hassall Co. catalog Hubbard nails were offered for sale along with other copper nails. I tried to find out if they made them. After two months of them searching their records they could find no proof that Hassall made Hubbard type nails at any time in their history.

Hubbard nails with a "LM" back stamp were probably associated with Line Material Co. of So. Milwaukee, WI. But again, trying to prove that became impossible, so I gave up after several attempts. Line Material became part of McGraw Electric in

1949. In 1957 McGraw Electric became McGraw Edison. In 1985 McGraw Edison became part of Cooper Power Systems. As is the case in most mergers or acquisitions, the records of the preceding company is destroyed. So no proof of association could be found there. Aluminum Hubbard nails were offered in the Line Materials catalog of 1962.

In 1955 the Seyler Manufacturing Co. of Pittsburgh, PA was purchased by A.B. Chance Co. of Centralia, MO. They continued production at that plant until October 10, 1960 when production was moved to Centralia. In 1963 A.B. Chance takes over Pole Line Hardware - Hubbard's product name. In August of that same year Graybar Electric, a major distributor of pole line products selects A.B. Chance as their supplier. Also in December of that year A.B. Chance buys four presses from the Hubbard plant in Cicero (Chicago), IL.

Here is where the trail runs out each and every time I have tried to follow it! I can find no evidence as to who was making the Hubbard nails. It is my guess that A.B. Chance was making them with Seyler equipment and marketing them primarily to Graybar for distribution, but again no proof. I even spoke with Albert B. Chance III in person on the phone, but again, no proof or recollection was forthcoming.

A.B. Chance Co. was acquired by Hubbell Power Systems, also of Centralia, MO in 1994. Ironically this is the one of, if not THE last, year a copper Hubbard nail was used - by the Omaha Public Power District (OPPD). This had a hand stamped 1994 date but the nail and other markings were machine made. This indicates again that at least the copper Hubbard nails were made by Chance all the way to the 1990's. But guess what!? No Proof!

Finally, the trail picks up one more time when Alcoa Aluminum's Precision Division with its works at Lancaster, PA sent Duquesne Light Co., of Pittsburgh, PA a letter and schematic offering to make Hubbard type aluminum date and pole height nails. This was in June of 1968. Duquesne accepted the offer and used these nails until 1987 when they received another letter saying that PrecisionForm Co. had purchased the Precision Products Division of Alcoa and because of space restrictions the nail manufacturing would be discontinued. This move was done in May of 1986 and the 1987 nails made for Duquesne are the last Hubbard nail I can verify. The point on these particular Hubbard's were almost pencil-point like. It was explained to me by a person with Alcoa who made the nails that instead of cutting the wire to a point like most nail machines do, in this case there was a lathe that would cut the wire, resulting in that smooth round point characteristic of these nails.

There have been copper Hubbard nails into the 1990's. I think that most, if not all of these later ones had hand stamped dates?? But I have no idea of who made the nails themselves other than my supposition that A.B. Chance continued to make them on the Seyler Mfg. equipment.

Correspondence with Copperweld and Chase Inc., who were also mentioned in much of my research as having ties to Hubbard & Co. also proved fruitless. No one at either company could find any direct link to the nails, although there were tie-ins to the

supply of materials to Hubbard. But the structure and product of both of these companies has changed dramatically since any possible involvement in the nail making process associated with Hubbard & Co.

This will be my last effort to tie all this together. Hopefully someone in the future will have better luck than I did in finding evidence of who actually made the Hubbard nails after the 1950's - other than Alcoa. And I hope someone can turn up a Patent and Patent drawing for the original design of this very unique and historic nail.

Rolland A. Meyers
Fall 2016
Spring 2017

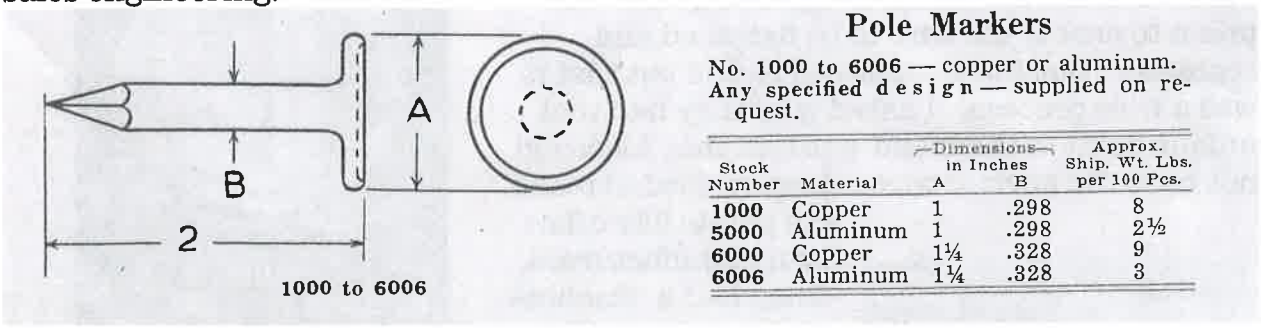
Trying to Track Down "Hubbards".....

Rolland A. Meyers

This project actually started over five years ago. I set out to try and find out who actually made these uniquely designed nails that, because they were initially back stamped, marketed and distributed by the Hubbard Company, have been called "Hubbard" nails by collectors.

Jerry Penry and I both tried to find out who actually manufactured these nails about five years ago, but both of us seemed to hit a dead end.....at least that was what happened to me. Jerry has written extensively about the Hubbard nails and provided wonderful diagrams and chronologic cross references to the markings on the back of these nails. I have let this project lie for several years now but have a renewed interest in it and will try to document as best I can the information that I have found recently.

It has long been suspected that the Hubbard Company (Headquartered in Pittsburgh, PA) did not actually manufacture the nails themselves, but were the distributor of them through their three outlets (Pittsburgh, PA; Chicago, IL; and Oakland, CA). Recently I uncovered the fact that a major galvanized pole hardware supplier and manufacturer was established in Pittsburgh, PA with a big new plant opening in 1922. The Hubbard Company had already been established and was manufacturing and distributing similar equipment. The name of this new manufacturing facility was the Seyler Manufacturing Company, it was organized by Carl Seyler, who moved from his job as Vice President and General Manager of the Hubbard Company. With him came N. C. Husted who was placed in charge of sales engineering.

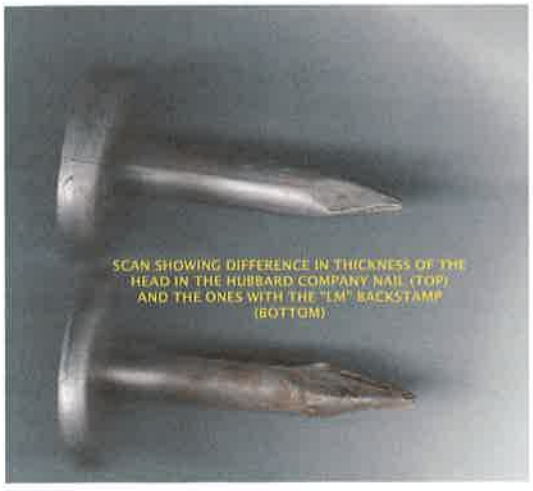


(Page from the 1943 Seyler Manufacturing Catalog)

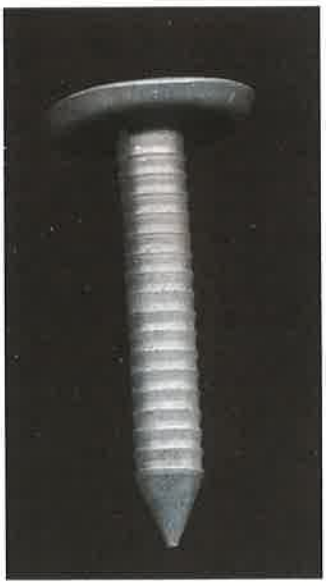
At this point it is my belief that the Seyler Mfg. Co. was the major, if not the sole, supplier of these nails to the Hubbard Company. There may have been others but thus far no names have surfaced that have the type of tie-in that Seyler had with Hubbard, along with the proximity of the two facilities.

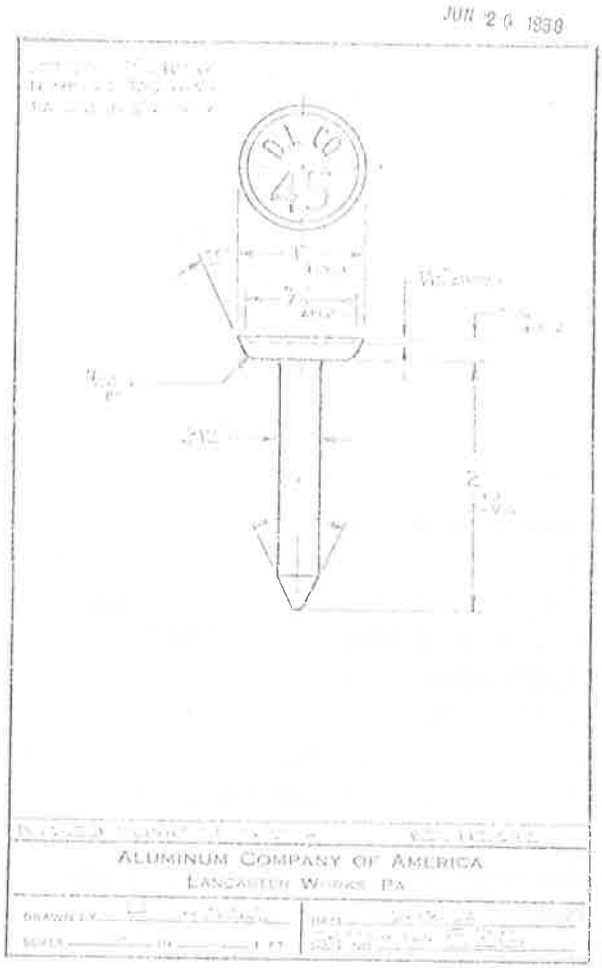
The problems arise when the Hubbard Company goes out of business in 1961 or 1962. The Seyler Manufacturing Company was then sold to A.B.Chance, a pole line hardware distributor. The facilities were apparently closed in Pittsburgh and moved to Missouri. I can find no record of either Seyler or A. B. Chance manufacturing these Hubbard type nails after this period. I have been in touch with A. B. Chance III and he has offered his help in trying to put this puzzle together. A. B. Chance was eventually purchased by Hubbell who is still in existence. But as far as I am able to learn thus far, neither A. B. Chance or Hubbell ever marketed the "Hubbard" type nails.

Who made these nails between 1961 and 1969 is the part of the puzzle that is totally missing at this time. We do know that several versions of the "Hubbard" type nail surfaced during this time frame. For example there was the version with "LM" as a back stamp. This apparently stood for Line Materials, a distributor. Some of these back stamps appeared to be crude while others seemed to have been machine tooled. In many cases the thickness of the head of the nail varied significantly from the original Hubbard Nails.



Differences in shanks also appeared during this period as well as the use of metal alloys that had not been used before. So the dilemma is who was making the nails during this 1961-1969 time frame?

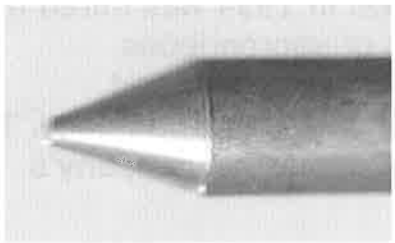




That brings us to 1969 when, without a doubt, Alcoa started making these nails. To the left is a preliminary schematic of an offer of a nail from Alcoa to the Duquesne Lighting Company of Pittsburgh, PA. This offer was accepted by them and from 1969-1987 the "Hubbard" type aluminum nails were used as date nails by Duquesne, as well as a series of height nails (25-=65).

I am also in possession of an internal memo from Alcoa telling Duquesne in 1986 they would no longer be able to supply these nails after 1987. The precision portion of Alcoa was being spun off and the company assuming this function was discontinuing the manufacture of these aluminum nails.

In 1986 Alcoa divested itself of the Precision Division and this was purchased by another company. They moved to smaller facilities than were available at the Alcoa Lancaster Works. It was decided that since the equipment to make these nails was so old and the list of customers for them, primarily Duquesne, was limited that production of these aluminum "Hubbard" type nails would stop. 1987, manufactured in 1986 was the last nail made by them. They were made from drawn aluminum wire, the same as other nails. I was told that because of the size of the head, extra care was taken to enable the wire to be flattened and recessed. But I was surprised to find out that it was a wire process. I asked why they had that unique point to them and was told that Alcoa did not have the normal wire crimpers used to make the points like other nail manufacturers. They had a machine that would act like a lathe while the wire was being held to get that point. But done at a fairly rapid speed.



HISTORICAL SKETCH: HUBBARD CO. HISTORY - (1843- c.1958)

Hubbard and Company supplied products to the railroad, communications and electrical industries across the United States, from the company's beginning in 1843 through 1958. Headquartered in Pittsburgh, Pennsylvania, Hubbard became a prominent supplier to these young industries, especially the electrical industry. Hubbard became a leading supplier of electrical distribution devices including pole line hardware and distribution specialties. Originally known as the Hubbard Brothers Company, the company was located at Water and Short Streets in Pittsburgh and began in 1843 with the manufacture of cross-cut and circular saws. The business continued at this location for 27 years until the company moved to Dinwiddle Street, in 1870. In later years, the company moved its offices to 6301 Butler Street, Pittsburgh, Pennsylvania, a site adjacent to the company's main production plant. By 1870 the company name had changed to Hubbard, Bakewell, and Lippincott. Their product line expanded to include shovels, spades, axes and railroad track tools such as hammers, sledges, and hinges. By 1880 the company moved to 46th Street, and Hubbard and Company came into existence when Bakewell and Lippincott withdrew from the partnership.

With John Hubbard's retirement from the company around 1900, the management of the company's production was divided between brothers John W. Hubbard (1864-1947), who led the production of shovels, and Charles W. Hubbard, who led the production of axes. From 1900 until his death in 1947, John W. Hubbard expanded the company's production, opening plants at other locations (to answer greater demands for their equipment). Hubbard opened plants in Cicero, Illinois (1919), Niles, Ohio (1923), Oakland, California (1924). Sales and distribution offices were also maintained at these plant locations, and also included New York City, Kansas City, Missouri, Havana, Cuba and Hamilton, Ontario, Canada. Hubbard and Company developed specialty divisions and distributed products from other companies, such as the Chance Company of Centralia, Missouri, and Copperweld Products of Pittsburgh and Rankin (Allegheny County), Pennsylvania. In 1909, Pierce Specialty Company of Elkhart, Indiana, was purchased and moved to Pittsburgh. Initially a separate section, Pierce Specialty eventually formed Hubbard's Electrical Materials Division in 1913. In 1950 Hubbard and Company added a new division, Hubbard Aluminum Products Company (HAPCo), which specialized in the design and production of aluminum street lighting poles and fixtures.

Hubbard and Company was sold to Charles H. Dyson in 1954 and became part of the Dyson Corporation. The sale of the company to Dyson in 1954 was mired in litigation four years after the date of sale over concerns of improprieties concerning the sale the company. The dispute involved the daughter and stepdaughter of John W. Hubbard, who owned the full shares of the company. The family dispute and eventual litigation ultimately brought about the company's demise.

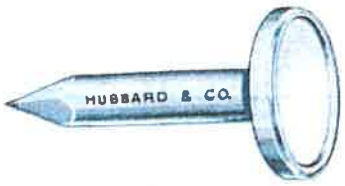
HUBBARD POLE DATING NAILS AND MARKERS

No. 1900 and No. 21900 styles of dating nails are used for indicating the year or pole heights. Any two numerals may be ordered.

For special marking, No. 6000 Aluminum Alloy or No. 2000 Solid Copper Markers are stamped in accordance with the accompanying or similar diagrams. No. 7000, furnished in solid copper with an oversize head for additional visibility and space will accommodate either larger characters or more data. No. 7006 is the same except made of Aluminum Alloy. Any marking will be quoted on request.

Nos. 6000 and 7006 Pole Markers are specially heat treated to provide driving strength. A heavy rim protects the stamping from hammer blows. Consecutively numbered Markers are furnished with depressed numerals, all other characters in relief.

No. 2000
Pole Marker—Solid Copper



No. 6000
Pole Marker—Aluminum Alloy

Fig. 1
A municipal marker designating the year pole was set.

Fig. 2
A plain style stamping showing the corporation name only.

Fig. 3
Showing the company name with spaces for the date and pole number.

Fig. 4
A marker for joint construction.

Fig. 5
With spaces left for completing the date and stamping pole heights.

Fig. 6
A railway marker with a space left for consecutive numbering.

Fig. 7
A typical stamping showing the corporation name and state.

Fig. 8
A complete marker bearing company name, date, pole number and space for stamping height.

POLE MARKERS

SEE "PLH" PRICE SHEET

Stock No.	Material	Dimensions—Inches			Approximate Shipping Weight Lbs., 100 Pcs.
		Overall Length	Dia. Head	Dia. Shank	
2000	Copper	2	1	.298	8.0
6000	Aluminum	2	1	.298	2.5
7000	Copper	2	1¼	.328	9.5
7006	Aluminum	2	1¼	.328	3.0

COPPER POLE DATING NAILS

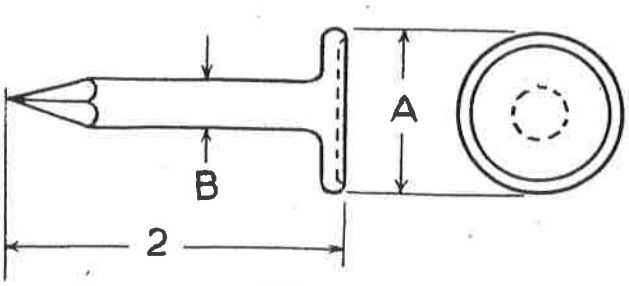
No. 21960
Pole Dating Nail—Solid Copper

Stock No.	Stamped No.	Stock No.	Stamped No.	Length Inches	Approximate Shipping Weight Lbs., 100 Pcs.
21900	Blank	21955	55	1¼	1.75
21950	50	21956	56	1¼	1.75
21951	51	21957	57	1¼	1.75
21952	52	21958	58	1¼	1.75
21953	53	21959	59	1¼	1.75
21954	54	21960	60	1¼	1.75

GALVANIZED POLE DATING NAILS

No. 1960
Pole Dating Nail—Galvanized Steel

1900	Blank	1955	55	2½	5.5
1950	50	1956	56	2½	5.5
1951	51	1957	57	2½	5.5
1952	52	1958	58	2½	5.5
1953	53	1959	59	2½	5.5
1954	54	1960	60	2½	5.5



1000 to 6006

Pole Markers

No. 1000 to 6006 — copper or aluminum. **Any specified design** — supplied on request.

Stock Number	Material	Dimensions in Inches A	B	Approx. Ship. Wt. Lbs. per 100 Pcs.
1000	Copper	1	.298	8
5000	Aluminum	1	.298	2½
6000	Copper	1¼	.328	9
6006	Aluminum	1¼	.328	3

FROM 1942 SEYLER CATALOG

SEYLER MANUFACTURING COMPANY, PITTSBURGH, PA.

HUBBARD & COMPANY

Jerry Penry

As an introduction, this multi-part history of the Hubbard & Company and its nails is probably very incomplete, but after several years of obtaining information I have decided to share what I know. I will first reveal the known history of the company, then the nails themselves, and lastly an updated system of drawings designed to aid in determining the age of the Hubbard nails.

History

John W. Hubbard

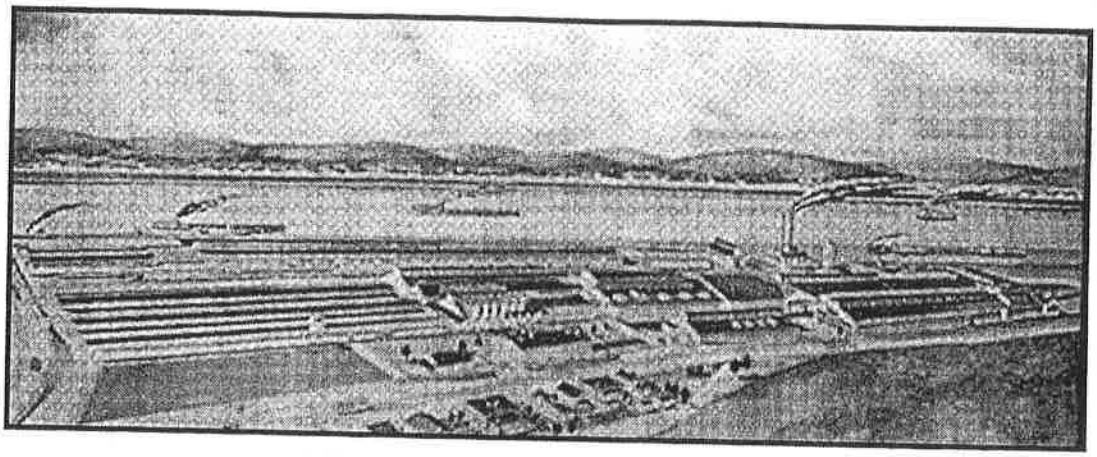
In 1843 Hubbard & Company began operations when it started making forgings and stampings that were utilized for the fledgling power and communications companies. The business at Pittsburgh, Pennsylvania, grew and by the turn of the century they were the clear frontrunner in this industry. By the 1920's the industry was booming and three new plants were started. The Chicago (Cicero), Illinois, plant was started in 1921, followed by the Niles, Ohio, plant in 1922, and the Oakland (Emeryville), California, plant in 1924. These four plants were considered both factories and warehouses. Around 1923 the company began producing a newsletter titled "The Hubbard Linebuilder" which showcased their products and new innovations that were being made. Sales offices in 1928 also listed the cities of Seattle, New York City, and Havana, Cuba. A Canadian factory during this time is listed as being in Hamilton, Ontario, under the name N. Slater Company. The Hubbard plant in Pittsburgh had a half mile of frontage on the Pennsylvania Railroad along the Allegheny River. In the late 1920's the company boasted they were producing more pole line hardware and distribution specialties than any other plant in the world.

The founder, John W. Hubbard, appears on the cover of a promotional brochure from 1937, however he is not listed as being in the corporate structure at that time. The president on this date was C. L. Pierce, Jr., with Joseph V. Smith listed as vice-president. Pierce may have arrived on the scene in 1922 since a reference is made indicating Pierce Construction Specialties were added in that year with the opening of the plant at Niles, Ohio. The Hubbard and Pierce names were linked together for many years, but it was always the "Hubbard & Company" name that took first place in promotional marketing material with "Pierce Construction Specialties" added as a trailer.

C. L. Pierce, Jr.

Joseph V. Smith

In the 1930's only 10% of rural United States was utilizing electricity while 90% of the urban areas were electrified. The Roosevelt Administration made it a goal to bridge the gap between urban and rural areas and soon power lines began appearing all across rural America. This was a tremendous boost to companies making the pole line hardware. Hubbard & Company had nearly 140 distributors in place in 40 states ready to sell their products. Sixty percent of these distributors were the favored Graybar Electric Company who had their own sales representatives marketing Hubbard products to the newly organizing rural utility companies.



Hubbard & Company – Pittsburgh Plant

In 1950, Hubbard Aluminum Products Company "HAPCO" spun off as a separate company in Pittsburgh. (http://www.hapco.com) Other subsidiary companies listed in 1955 were Unit Rail Anchor Division in Chicago; Beall Tool Division in East Alton, IL; and Sands Level & Tool Division in Clinton, IN. Having these subsidiary companies possibly indicated a need for Hubbard & Company to diversify from just making pole line hardware.

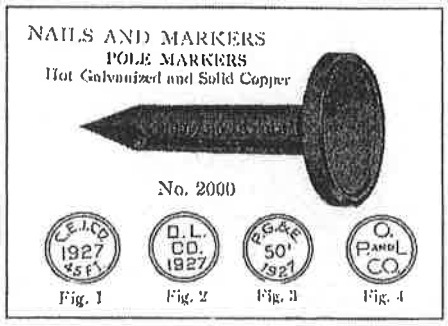
During my research, I interviewed 78-year-old Paul J. Mahoney from Corinth, TX, who was a former salesman for Hubbard & Company in Pittsburgh in the 1950's. He said the company began to lose the marketplace and had to downsize. The Niles plant had apparently already closed sometime before 1942 since it is not listed on the newsletters of that year. According to Mahoney, the plants in Oakland and Chicago were the first to be effected and subsequently closed. Long time union employees with seniority from Oakland and Chicago began to bump the younger force out of their positions at Pittsburgh. He felt this resulted in Hubbard & Company having only an older workforce with outdated skills who were nearing retirement anyway. The once giant Hubbard & Company could no longer compete with other companies producing the same utility components. In 1962 the Pittsburgh plant closed and moved to Abingdon, Virginia. The company name now became just "HAPCO", and the "Hubbard & Company" name ceased to exist. The company then focused on manufacturing only aluminum light poles and brackets and is now owned by Kearny-National, Inc. A further addition to the company occurred in 1983 when the American Flagpole Company, moved from New York, to Abingdon to join HAPCO, but retains its own name. Their specialty is manufacturing a complete line of aluminum, stainless steel and bronze flagpoles. (http://www.americanflagpole.com).

The Hubbard Nails

Jerry Penry

The Hubbard nails that were used in utility poles apparently were first made in the mid or late 1920's. The first reference I have seen with these nails being offered for sale is in a 1928 Hubbard & Company catalog which shows four examples of Hubbard nails (line drawings). The catalog listed only solid copper or hot galvanized steel "marker nails", so the aluminum ones had apparently not yet been produced. If earlier Hubbard supply catalogs could be found an exact date of their arrival could be determined. The oldest copper Hubbard I have in my own collection has a factory "27" as part of the lettering on a KP&L nail, so they were indeed being produced as early as 1927. The earliest aluminum Hubbard I have has a factory "1930" as part of the lettering on a NWPS CO. nail, so this seems to be a close date for the arrival of them or possibly 1929.

In my 1938 and 1955 Hubbard catalogs it shows the availability of both solid copper and aluminum alloy marker nails, but the steel ones were no longer listed. These later catalogs also show the 1¼" head size marker nails in both copper and aluminum. The aluminum marker nails were said to be specially heat treated to provide extra driving strength. Hubbards with consecutive numbers could be furnished with depressed numerals, all other characters being raised numerals or letters. This notation about depressed numerals referred to a factory stamping that is similar to hand stamping, but it is uniformly perfect in spacing, and in the depth of the stamp.



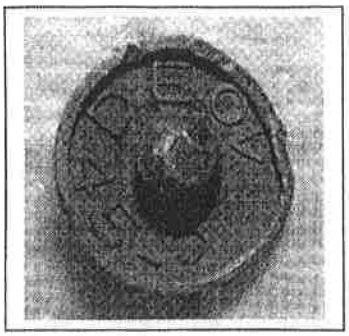
Hot Galvanized & Solid Copper Hubbards from 1928 Catalog.

Factory number stamping.

Examples of copper Hubbards being stamped at the factory can be seen in Date Nails Complete as copper Hubbards No. 2, 7, 32, 48, 79, 82, 93, and 103. No examples of aluminum factory stamping are shown in DNC, but I personally have two 1¼" aluminum nails that have been factory stamped. As a general rule all main characters on Hubbards are in raised figures, a rare example of a Hubbard having full factory indented characters is aluminum Hubbard No. 221.

Hubbards made of cast bronze were primarily used during the 1930's by CG&E, SWOP, ULH&P, and UG&E. (See DNC pages 211-214). A tiny set of bronze miniature Hubbards with 5/8" diameter heads were produced for Cincinnati Gas & Electric. (DNC page 210). In my collection I also have a curious bronze Hubbard that has no outside edge. It is fully hand stamped. At first I thought it might have been made this way, but I can see grind marks where someone had ground the outside edge off. In DNC copper Hubbard #53 claims to have no outside edge.

Bronze Hubbards. The right one has no outside edge. The bottom one is a miniature Hubbard.



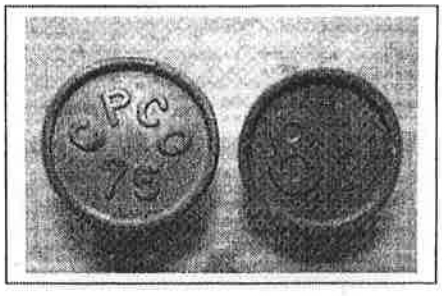
Nail & Washer design. These washers were almost identical to the heads of a true Hubbard.

Another variation of a Hubbard was the nail & washer combination. The Detroit Edison Company was at least one company who used these. The heads have the appearance of being the same design as a Hubbard, but there is no shank. Instead, a heavy aluminum nail goes through a hole in the center of the washer. Unless these were somehow cheaper to manufacture, I can see no advantage to using this design. It is possible that another company had tried to simulate the Hubbard nail design and market these instead. The back of the heads do not have any Hubbard & Company markings.

My interview with former Hubbard employee Paul J. Mahoney, who was a salesman at the Pittsburgh plant in the 1950's, did not produce any memory of dating nails being sold by Hubbard & Company, although the 1955 catalog does show them. Mahoney said he was mostly involved in the northeastern part of the country and the tags manufactured by the Premax Company seemed to be what most utility companies were asking to purchase. For those unfamiliar with Premax, they still produce a wide variety of the embossed tags and numbers that are found poles everywhere. This company was founded in 1922 and also currently produces brass and aluminum date nails of the nail and washer design. (http://www.premaxlp.com)

Hubbard & Company continued to offer the Hubbard style nail until they ceased operation in 1962. According to Hapco, who is the remnant of the original Hubbard & Company, they have never made them or offered them after moving to Virginia in 1962. Some company did, however continue to produce these nails. In my research I have come to the possibility that Hubbard & Company maybe never did actually manufacture these nails, but instead had another company making them with the "Hubbard" name or company symbol on the reverse side. After 1962 the Hubbard "shield" symbol on the backside disappeared from this style of Hubbard nail. (I will go into more detail about Hubbard backside markings in future story).

If another company had been producing the Hubbard style nails only for Hubbard & Company, it seems likely they could have removed the company marking from the backside and then offered them to any pole line material supplier after Hubbard & Company ceased to exist in 1962. Most Hubbards produced after 1962 are blank on the back side. The only exception I have found are a few with the initials "LM" on the backside. The initials are uniformly made on the smaller Hubbards, but sort of scratched in on the backside of the larger Hubbards. These initials stand for "Line Material Company" who was a major utility hardware supplier that was founded in 1911.



Examples of Hubbards still being produced in the 1970's and 1980's.

After the demise of the Hubbard & Company in 1962, the original producer of the Hubbard nails could have been supplied these nails to several different electrical suppliers with the backsides mostly being left blank. It was not uncommon for Hubbards to appear exactly the same on the front, but have different Hubbard & Company markings on the back. Every so often they changed the design on the back of the nails. Almost all Hubbard nails produced for the Hubbard & Company had some sort of backside marking except those early ones up until about 1930. The last marking on the backside before the company ceased in 1962 would have been the "shield" symbol. I have at least one Hubbard used by a particular utility company with the shield marking on the back, and then one of the same exact design on the front, but with no Hubbard & Company markings on the backside. To me this indicates the company producing these nails continued to supply that utility company with the same nail except they no longer put the Hubbard & Company marking on the backside. This might be further evidence to suggest the Hubbard nails were not actually made by the Hubbard & Company.

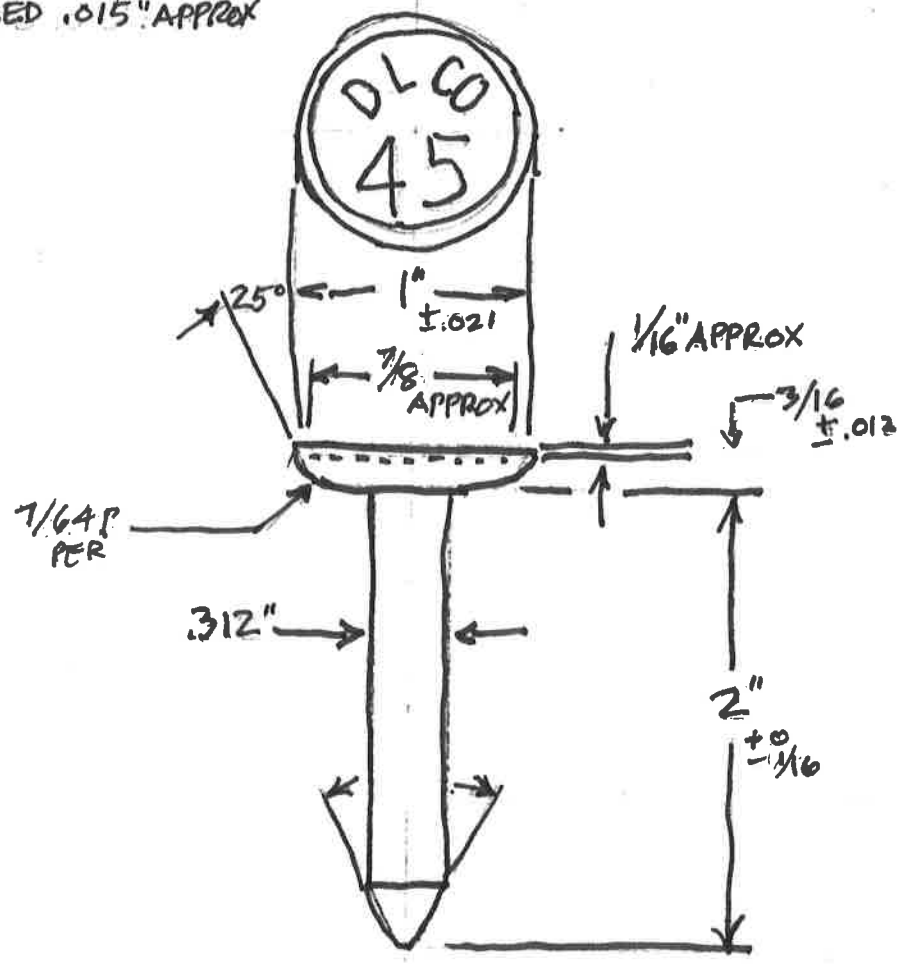
We know that Hubbards were still being produced by someone at least into the 1980's since there are some bearing two digit years in the 80's. I spoke with a salesman at Premax about this type of nail and he said he was indeed familiar with what I was referring to, but their company never produced them. He said he had talked to several utility companies who had once used them, but no one seems to remember where they were obtained. One company might have been Chase Brass & Copper since they would have had ample supplies of both these materials. Hubbard & Company apparently did not produce their own copper items since their catalogs show the copper items as being "Copperweld". Copperweld Corporation was a company located in Pittsburgh just as Hubbard & Company was, so the mystery continues as to just who really manufactured these nails.

I contacted four different utility companies who I knew were still using Hubbard type nails into the 1980's in an effort to figure out where the nails originated. Only one, Omaha Public Power District (OPPD), wrote me a nice letter indicating they purchased their nails from Graybar Electrical Supply. Graybar has offices all across the company and markets similar items for the utility industry like Hubbard & Company once did. I contacted the Graybar office in Omaha, but they no longer carried the nails. The person I spoke with had no interest in pursuing my quest and said without a manufacturer's name he could not tell me who they got them from. After further explaining that the manufacturer was what was trying to determine he could not help me. A query to the main Graybar office in Missouri went unanswered. I dropped the matter and to my knowledge the maker of the Hubbard type nails is still unknown unless someone else can shed some more information.

Probably the most frequently asked question among Hubbard nail collectors is "How many different ones are there?" Date Nails Complete shows about 600 different ones, but it is very incomplete. My personal collection contains about 400 different Hubbards, but many of these are not in DNC. Approximately 77 Hubbards with different markings were used in my state of Nebraska alone. I would venture to say there are at least over 1000 different Hubbards. Perhaps if someone were to make a webpage where we could all supply images of our nails, we could come up with a rough idea. One off the most critical pieces of data that needs to be documented is what the markings on many Hubbards represent. While I know what the markings from the Nebraska Hubbards represent, I have no idea on many others. DNC also has some erroneous data.

JUN 20 1968

LETTERS 3/16 HIGH
NUMBERS 5/16" HIGH
RAISED .015" APPROX



DUQUESNE LIGHT CO. EST. 119622

ALUMINUM COMPANY OF AMERICA
LANCASTER WORKS PA

DRAWN BY P. THOMAS	DATE 6-19-68
SCALE ~ IN 1 FT	SKETCH NO. 526 DWG NO

FR 3725-751

Nebraska is unique for having many different Hubbards that were used in utility poles. In the preceding pages I have hopefully listed all Hubbards that are known from Nebraska. At the printing of DATE NAILS COMPLETE there were still some Hubbards yet to be found, and some of those that made it into the book had wrong or missing information. I have tried to stay away from showing every possible Hubbard with hand stamped information for obvious reasons. Unless noted "Hand Stamped", I have shown the Hubbards as they came from the factory. Space and a lack of complete knowledge does not allow me to list every city where a particular Hubbard may be found, instead only the principal city. The ☆ represents those Hubbards which can be found in adjacent towns around the one listed. The * refers to a special note which provides additional information about that Hubbard. Many of the utility companies which do not have a note no longer exist, but exact information could not be found. All Hubbards shown are 75% of their original size. Thanks to Leroy Johnson of North Platte for all his help in this.

NOTES:

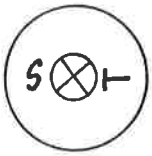
1. Many varieties probably exist for Hubbards #20 and #21 because they are hand stamped.
2. Used primarily during World War II years only. Consumers Public Power District (CPPD) merged to form Nebraska Public Power District (NPPD) in 1970.
3. Central Power Company had three main locations in Nebraska (a) Kearney-Grand Island area (b) Nebraska City area (c) NW of Columbus - 3 Counties. The company became part of CPPD in 1941.
4. Interstate Power Company had a plant in northern Nebraska on the Niobrara River at Spencer Dam. This power plant became part of CPPD in 1943. Other minor varieties exist.
5. North Western Public Service became part of CPPD in 1940, and locally in North Platte became MLP (Municipal Light and Power).
6. DATE NAILS COMPLETE list the large Hubbards as being 1 3/8" diameter. This could be a misprint since those shown here are 1 1/4" diameter.
7. Similar variations such as size of the stamp and year date exist.
8. Many variations exist because it is hand stamped.
9. Another minor variety regarding the placement of the letters exists. Used in late 1940's and early 1950's.
10. It is believed that all Hubbards like this one have been smashed and then hand stamped with "CITY".
11. Iowa-Nebraska Power & Light became part of CPPD in 1941.
12. Nebraska Power & Light became part of CPPD in 1941.
13. Platte Valley Public Power and Irrigation District merged to form NPPD in 1970.
14. The top of the Hubbard was hand stamped with "SSC".
15. Western Public Service Company covered thirty counties in western Nebraska and became part of CPPD in 1942.

In reference to my last article on Nebraska Hubbards, member John Bergmeier has informed me of two other hubbards that he has found in Nebraska that are not in my list. Both are believed to be from the utility company of North Western Public Service.

Jerry Penry, #1068

#348(?)

McCook
(Aluminum)



Back Side

Niobrara
(Copper)
Has large hand stamped
"22" over letters.

NEBRASKA HUBBARDS

By: Jerry Penry
#1068

COPPER
1" Diameter

#1 — A — Alma

#13 — CITY — St. Paul

#14 — CITY — Grand Island

CITY — David City

#16 — CITY 30 — Guide Rock

#17 — B. CITY B. — Broken Bow

#18 — CITY — Beatrice

#19 — CITY 19 FT — Norfolk

#20 *1 — CITY — Fairbury (Hand Stamped)

#21 *1 — CTY — Fairbury (Hand Stamped)

CITY MINDEN 1930 — Minden

#22 — CITY MINDEN 1931 — Minden

#25 — C. OF K. — Kimball

#27 — C L — Hastings "City Light"

#28 *2 — CONSUMERS 19 FT P.P. DIST. — State Wide

#29 *3 — C.P. CO. ☆ — Nebraska City "Central Power Company"

#64 *4 — I.P. CO. ☆ — Ainsworth "Interstate Power Company"

#65 — J — Scottsbluff

#90 — M.L.P. — North Platte

#91 — M.L.P. — North Platte

"Municipal Light & Power"

#92 — M. W. L. P. — Lincoln "Municipal Water Light & Power"

#94 — N.C.T. CO. — Kearney "Nebraska Central Telephone Company"

#98 *5 — N.W.P.S. — North Platte "North Western Public Service"

#102 — OPPD ☆ — Omaha

O.P.P.D. ☆ — Omaha

"Omaha Public Power District"

#109 — PP — McCook "Public Power"

#S.S.C. 19 FT — So. Sioux City

SSC 1968 — So. Sioux City (Hand Stamped)

#126 — T.W.P.S. CO. — Lexington "Tri-County Water & Power Supply Company"

COPPER
1 1/4" Diameter *6

#156 *7 — HU 66 — Hastings (Hand Stamped)

Hastings (Blank)

"Hastings Utilities"

ALUMINUM
1 1/4" Diameter *6

NCU ☆ — Nebraska City

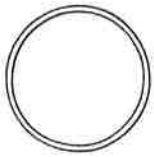
#529 — NCU ☆ — Nebraska City

"Nebraska City Utilities"

*3 — C P ☆ — Nebraska City "Central Power Company"

ALUMINUM

1" Diameter



Fairbury
(Blank)

#200

Chadron

#202

Grand Island

#203

Grand Island

#204 *8

Fairbury
(Hand Stamped)

#207

Crete

#210

Hastings

#213

Lexington

#219

Kimball

Wayne

#220 *9

State Wide

State Wide
Like #220
(No Flag)

#221

State Wide
(Indent)

"Consumers Public Power District"

Doniphan
(Hand Stamped)

#275

Fremont

Fremont
"Dodge County Utilities"

#291

Aurora
"Hamilton County Telephone Company"

#10

Grand Island

#306 *11

Eastern Nebr.

#307

Eastern Nebr.
"Iowa–Nebraska Light & Power Company"

#308 *4

Atkinson
"Interstate Power Company"

#333

North Platte
"Municipal Light & Power"

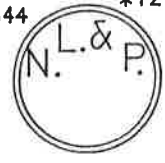
#334

North Platte

#343

Nebraska City
"Nebraska City Utilities"

#344 *12



McCook

#345

McCook
"Nebraska Light & Power Co."

#395 *13

Cozad
"Platte Valley Public Power District"

#409

Sidney
"Sidney Public Utilities"

#434 *15

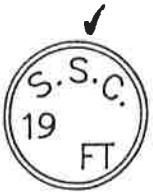
Chadron
"Western Public Service Company"

STEEL

1" Diameter

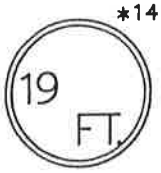
#497 *5

North Platte
"North Western Public Service"



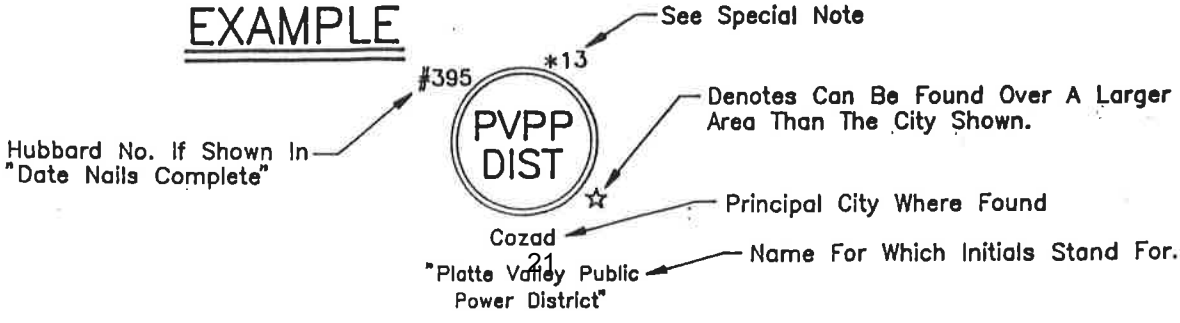
So. Sioux City

*14



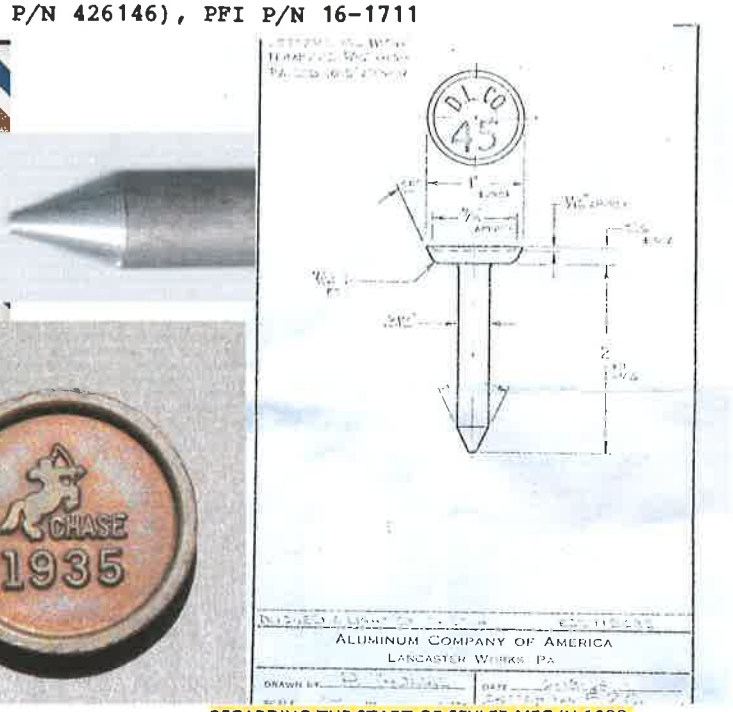
So. Sioux City

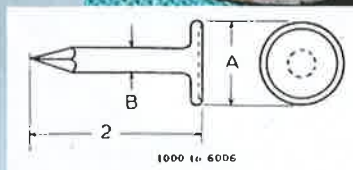
EXAMPLE



PrecisionForm, Incorporated purchased the assets and business of Alcoa's Precision Products Division in May, 1986. We are currently leasing space in the Alcoa plant until our new facility can be completed in August. Since we will be moving to a new facility, there were some constraints on space for equipment. Unfortunately, the equipment used to manufacture the following part(s) for your company will not be taken with us. Therefore, we will be unable to supply this product for you.

Pole marking nail (Cust. P/N 426146), PFI P/N 16-1711





Pole Markers

No. 1000 to 6006 — copper or aluminum. Any specified design — supplied on request.

Stock Number	Material	A	B	Approx. Ship. Wt. Lbs. per 100 Pcs.
1000	Copper	1	.298	8
5000	Aluminum	1	.298	2½
6000	Copper	1¼	.328	9
6006	Aluminum	1¼	.328	3

REGARDING THE START OF SEYLER MFG IN 1922.

LINE- HARDWARE MANUFACTURER STARTS PRODUCTION.

The Seyler Manufacturing Company, Sharpsburg, Pittsburgh has been organized and has moved into its new factory building. The plant has 65,000 square feet of floor space which will be devoted exclusively to the manufacture of hot galvanized pole line hardware.

"Bo-arrow" arms, pins, house brackets, mast irons, secondary racks, etc. The company was organized by Carl Seyler, formerly General Manager and Vice President of the Hubbard Company, Pittsburgh. Associated with Mr. Seyler is N. C. Husted, in charge of sales engineering. Mr. Husted was also formerly with the Hubbard Company.

The company has been in production for over a month, and, it is stated, is now in a position to make prompt shipments.

HUBBARD POLE DATING NAILS AND MARKERS

DATING NAILS
Hot Galvanized

No. 1928

Used for indicating the year in which poles were set and also the height of poles. Special Nails with 2 or 3 numerals, letters or characters, depressed in the head can be furnished.

Stock No.	Number	Stock No.	Number	Overall Length Inches	Approx. Shipping Wt. Lbs., 100 Pcs.
1900	Blank	1927	27	2½	4.4
1920	20	1928	28	2½	4.4
1921	21	1929	29	2½	4.4
1922	22	1930	30	2½	4.4
1923	23	1935	35	2½	4.4
1924	24	1940	40	2½	4.4
1925	25	1945	45	2½	4.4
1926	26	1955	55	2½	4.4

POLE MARKERS
Hot Galvanized and Solid Copper

No. 2000

Fig. 1 Fig. 2 Fig. 3 Fig. 4

These Markers are furnished with a 1-inch diameter head that provides a larger stamping surface than the standard Dating Nail. They are carried in stock, blank, and can be stamped with any raised letters or numerals in the styles illustrated above. Special designs or characters can be stamped at a slight additional cost. Blue print or sketch showing designs required should accompany the order.

Stock No.	Material	Overall Length Inches	Approximate Shipping Weight Lbs., 100 Pcs.
2000	Solid Copper	2	7
5000	Galv. Steel	2	6

Collage. R.Meyers -'16

Dating & Classifying the Hubbard Nails

Jerry Penry

This guide is intended to help determine the age of Hubbards and also develop a Type system for back marks and shanks styles. The exact year the Hubbards were first produced is uncertain, but the best indication for their arrival is the mid 1920's. The steel Hubbards probably came first, and then followed by the copper ones. In Date Nails Complete, pages 189 - 190, Wiswell & Evans indicate the earliest year to be 1927. The aluminum Hubbards are not shown in the 1928 Hubbard & Company catalog, but had arrived by 1930. The steel Hubbards were short lived, and probably discontinued around this time. The bronze Hubbards were used from approx. 1934 – 1939. They were cast and not made from wire like the steel, copper and aluminum ones. Like the steel Hubbards, they have no backside markings. At least one known aluminum Hubbard marked CABLE was also cast.

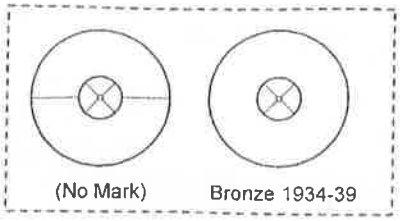
In Date Nails Complete, the 1927 - 1930 Hubbards are noted to either be blank or a circle with a vertical line inside. This circle and line is not a mark, but rather just showing the seam line across the backside of the entire nail. (See page 189 of DNC). The following list should be reliable for dating Hubbards using backside markings.

(Blank) = 1927 - 1929
H = 1929
H H = 1930 - 1931
H 2 = 1932
H 3 = 1933
H 4 = 1934
H 5 = 1935
H 6 = 1936
☼ = 1937
HUBBARD COMPANY = 1938 - 1958
⊕ = 1959 - 1962
(Blank) or **LM = 1963 - Later Years**

The above information was determined by using Hubbards only with factory made year markings because those with hand-stamped dates are often unreliable. A large amount of Hubbards with factory marked dates were actually made the previous year. For instance, a nail having an "H 4" backside marking, but a "1935" date on the head was ordered and made in 1934. Apparently at least two companies, OPSCO and DECO ordered Hubbards to retroactively date poles that were already in place. These Hubbards have dates from the 1920's, but backside markings showing they were actually made in the 1930's. Hubbard #248 in DNC gives the appearance it was made in 1923. When trying to determine the age of Hubbards, the backside marking will almost always overrule the front factory dates. Most Hubbard type nails produced after 1962 do not have any backside markings making it tough to date them. An unknown company took up the design, but did not advertise on the backside. The manufacturing process was also different since there was no longer a seam on the backside or on the shank. One exception is the aluminum nails marked with "LM" on the backside. These were produced or marketed by the Line Material Company. Some newer aluminum Hubbards have been found with dates in the 1980's. These have a cone shaped point unlike the regular cut point. The manufacturers of the Hubbard style of nails are still unknown. The next two pages show known backside marks for 1" diameter Hubbards.

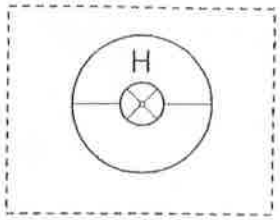
1927 - 1929

The earliest produced Hubbards had no backside markings. There is usually a heavy seam on the back and the heads are squared on the sides unlike those that came later with a rounded edge. An exception to the backside seam is at least one Hubbard that was cast aluminum and had no seam marks. All steel Hubbards have the seam.



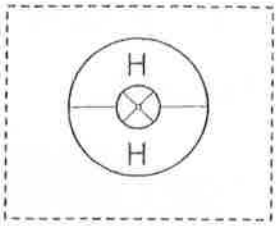
1929

Probably the first year that a mark appeared on the backside of a Hubbard. The edges of the sides were squared off.



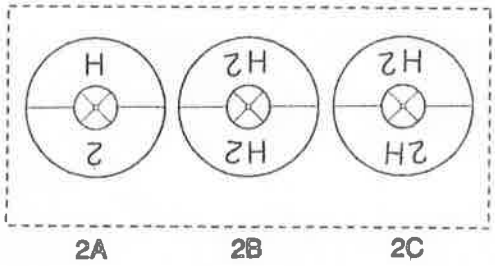
1930 - 1931

The first appearance of the double "H" mark occurred during these years. The edges of the Hubbards produced during these years were still squared and not rounded.



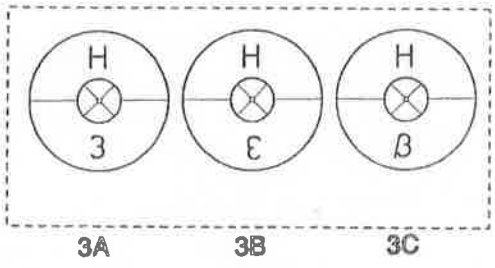
1932

This is the first year Hubbard & Company attempted to actually date the Hubbards by using a number system on the backside.



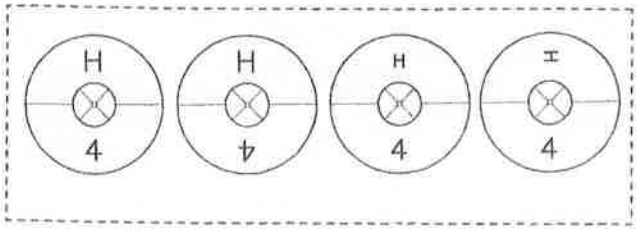
1933

A continuation of the single number designating the year of manufacture. The third drawing is the result of a broken die. The edges of the Hubbards were now beginning to appear rounded instead of the squared edges like the early ones.



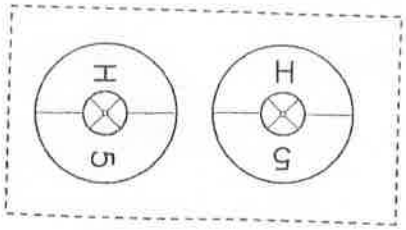
1934

It was obvious that backside markings did vary for the same year. Apparently there was no real attempt to make either the number or the letter on the top. Note the small "H" in the third and fourth drawings.



1935

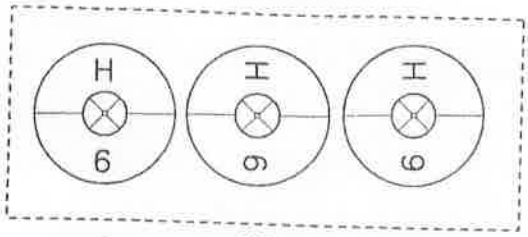
Many Hubbards with "1935" as part of the text on the head have the "H 4" mark on the backside. This shows the high demand for Hubbards in 1935, so they were produced ahead of time in 1934.



5A 5B

1936

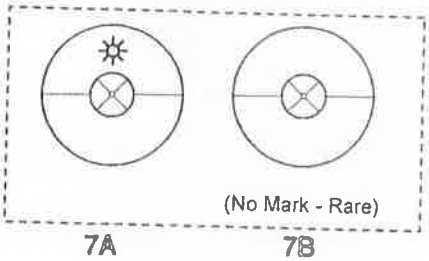
The final year for the number appearing on the back of a Hubbard. The side to side markings on some Hubbards of this date actually appeared to be "H 9".



6A 6B 6C

1937

For unknown reasons the number was dropped from the backside of the Hubbards during this year. The "sun" symbol appeared only during 1937. In at least one instance the back is blank on a Hubbard with a factory 1937 date. It is the same as the Type 10 backside, but must have a front 1937 factory date to be considered a Type 7B.



7A 7B

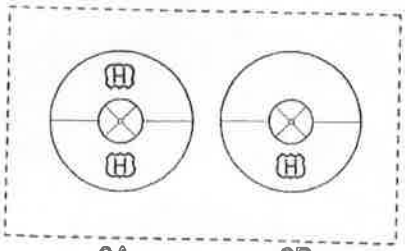
1938 - 1958

All attempts to date the backsides of Hubbards was stopped in 1938 in favor of more clearly showing the entire company name. This would last for the next 20 years making Hubbards difficult to date during those years without front date markings.

8A

1959 - 1962

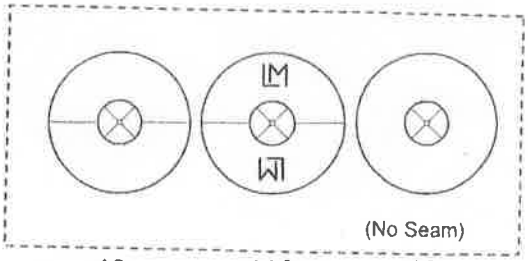
The final mark for a Hubbard was the "shield" symbol. In almost all cases the shield appears on both the top and the bottom of the backside of 1" nails. Having just one shield symbol on the backside is rare except for the 1¼" nails. Some having 1963 dates might still have the shield symbol since they were ordered In 1962.



9A 9B

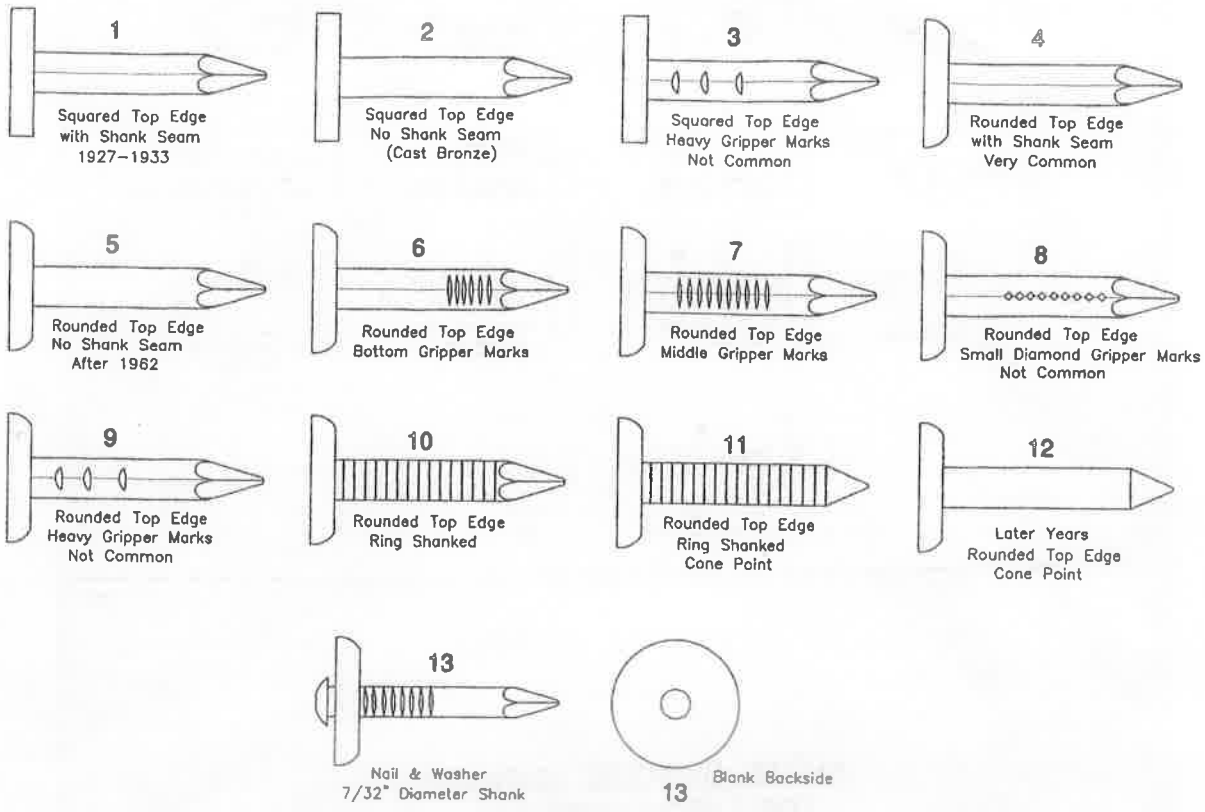
1963 - Later Years

Most of the Hubbards produced after 1962 had no markings on the backside. One known exception are those produced by the Line Material Company which had their "LM" initials. There is also the absence of a seam on the backs of most Hubbards produced after 1962.

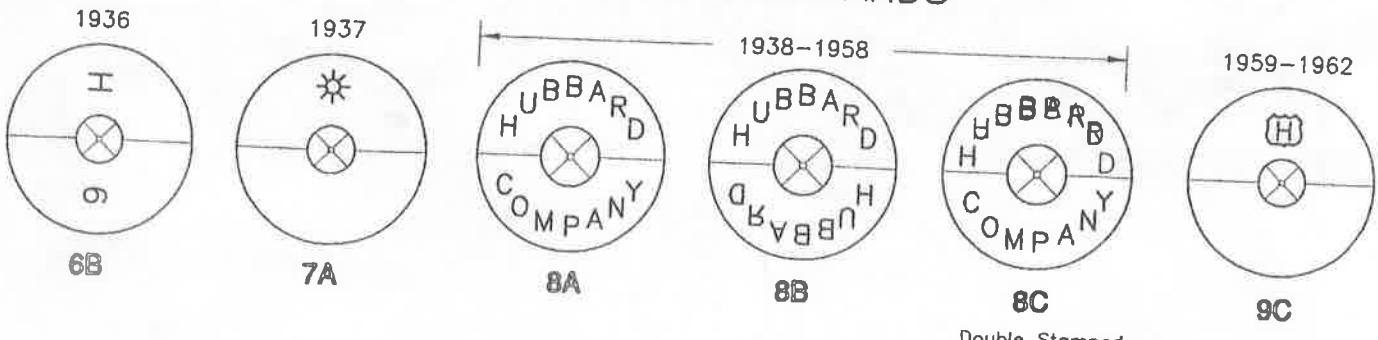


10 11A 12

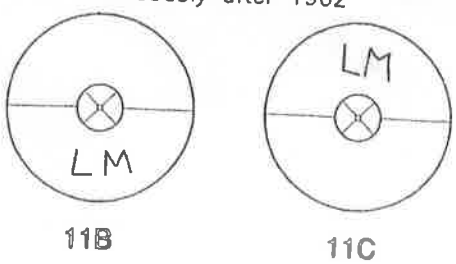
KNOWN SHANK TYPES



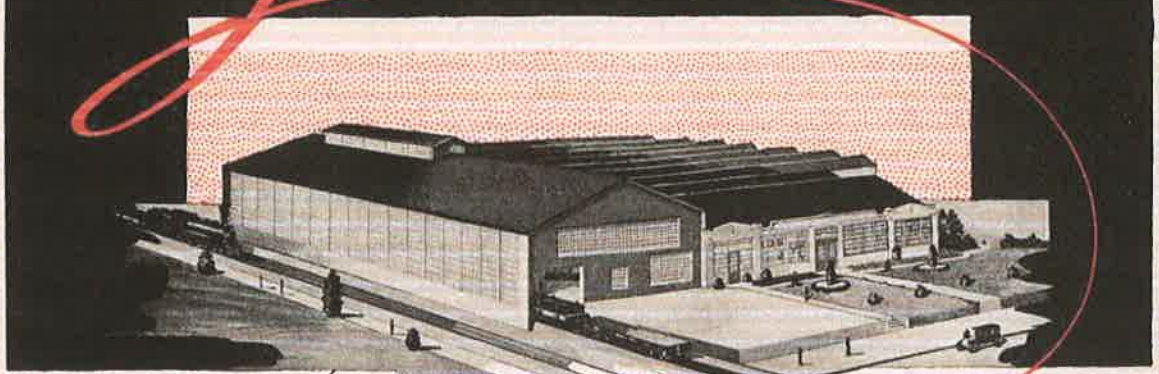
KNOWN BACKSIDE MARKINGS FOR LARGE HUBBARDS



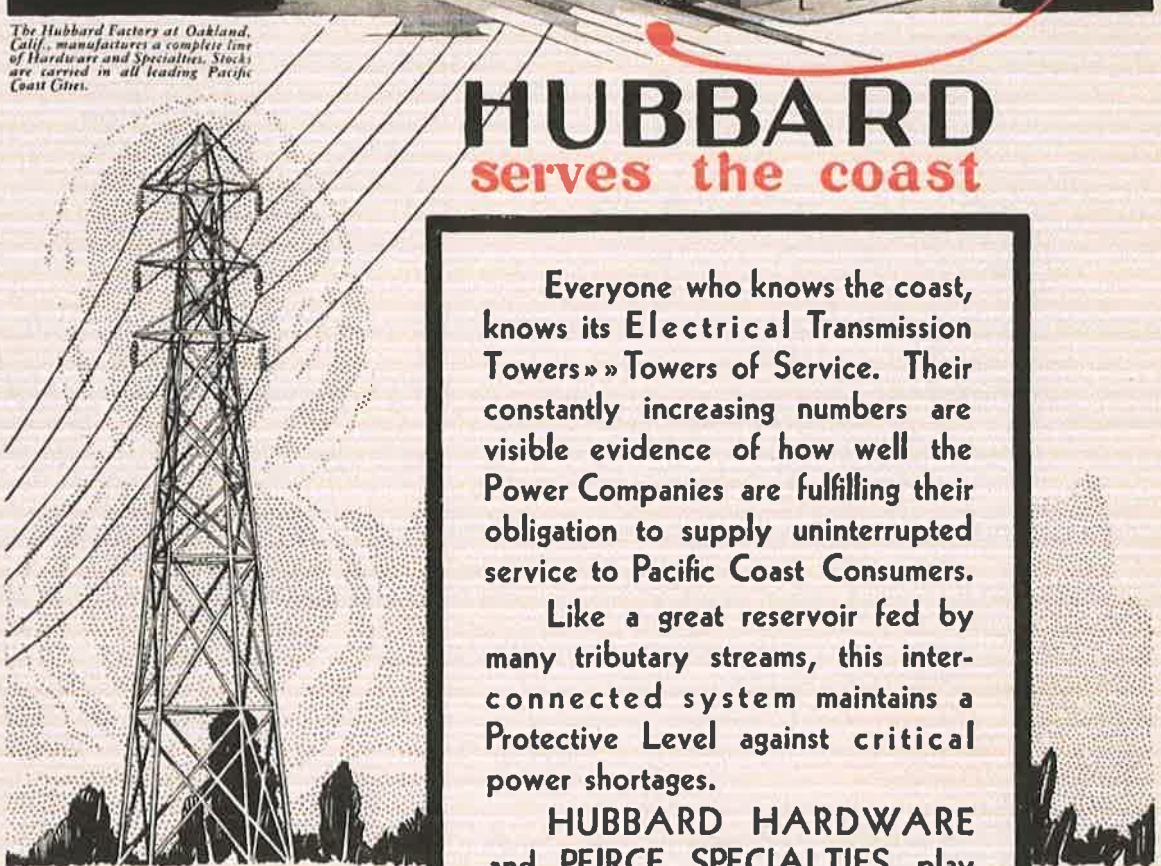
Line Material Company
Probably after 1962



from OAKLAND



The Hubbard Factory at Oakland, Calif., manufactures a complete line of Hardware and Specialties. Stocks are carried in all leading Pacific Coast Cities.



HUBBARD
serves the coast

Everyone who knows the coast, knows its Electrical Transmission Towers» » Towers of Service. Their constantly increasing numbers are visible evidence of how well the Power Companies are fulfilling their obligation to supply uninterrupted service to Pacific Coast Consumers.

Like a great reservoir fed by many tributary streams, this interconnected system maintains a Protective Level against critical power shortages.

HUBBARD HARDWARE and PEIRCE SPECIALTIES play their part.

Can YOU Afford to Take a Chance?

Are you seeking the long odds, taking the big chance, or playing the game safely and conservatively? Occasionally the "100 to 1 shot" makes good, but day after day, week after week, the "odds on" favorites, "Hubbard Hardware and Peirce Specialties," have meant saving of money, time and patience. They also mean the utmost in engineering and production skill. They are always out in front.

Distributed by GraybaR

John Lineman and his pals are still backing the right horse, and they know!

Ask the Man Who Uses Hubbard Hardware and Peirce Specialties

HUBBARD

Hubbard and COMPANY

PITTSBURGH · OAKLAND, CAL. · CHICAGO

57

Distributed by GraybaR

Large Copper 1 1/2" (Index)

1. Blank. Hastings Utilities (NB) and Norwalk, OH
2. B&LE RR. Bessemer & Lake Erie Railroad. Northwestern PA and Northeastern OH
3. BM Corp
4. C. C. Tel. Co. Capitol City Telephone Co. Jefferson, MO
5. Same
6. Same
7. Same
8. Cilco 1949. Central IL Light Co.
9. Cilco 1950. Central IL Light Co.
10.
11. Cilco 1952. Central IL Light Co.
12. City of Shelby. Shelby, NC
13. CITY.
14. CITY. Norwalk, OH. Hand stamped
15. City of Salem. (MA?)
16. C. W. E. P. Clintonville, WI (See set - Used 1959-1973)
17. D. L. C. O. Duquesne Light Co. Pittsburgh, PA. (See Set C, D, E, F and G series)
18. Elect. Dept. Electric Department St. Peter, MN (See set)
19. Girard Boro No. 1961. (PA)
20. Girard Boro No 195 (PA)
21.
22. HU. Hastings Utilities (NB). (See set - All hand stamped).
23. H. Hawaii Electric. (See set - Most are hand stamped with date and pole height).
24. K. (PA)
25.
26. K P&L 27. Knoxville Power & Light. Knoxville, TN
27. K P&L 29. Knoxville Power & Light. Knoxville, TN
28. K P&L 1930. Knoxville Power & Light. Knoxville, YN
29.
30. KUB. Knoxville Utility Board (TN). (See set - 1948-63)
31.
32.
33. MAFB. No. Ft. March Air Force Base (CA).
34. M.A.F.B. March Air Force Base (CA) - Note off set strike on nail.
35. M.A.F.B. March Air Force Base (CA).
36. MAFB No 45 FT. March Air Force Base (CA). All hand struck
37. M.A.F.B. AE No. 17 March Air Force Base, (CA)
38.
39.
40. WM RY CO Western Maryland Railway Co. (MD)
41. WM RY CO. 51. Western Maryland Railway Co. (MD)
42.
43. W. S. T. C. Western States Telephone Co. (CO and AZ)
44.
45.
46.
47. 97. (hand stamped - Mobil Oil Refinery, Beaumont, TX
48.
49.
50.
51.
52.
53. 2500 Lumen. Charleston, WV
54.
55.
56.
57.
58.
59.
60.

Large Copper Hubbard's (1 1/4")

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
Clintonville, WI Water, Elect & Power (See Set) 16	Duquesne Light CO. Pittsburgh, PA (See Set) 17	Electric Dept St. Peter, MN (See Set) 18	19	20
21	Hastings Utility, NB (See Set) 22	Hawaii Elect Co. (See Set) 23	24	25
26	27	28	29	Knoxville, TN Utility Board (See Set) 30

Large Copper Hubbard's (Cont'd.)

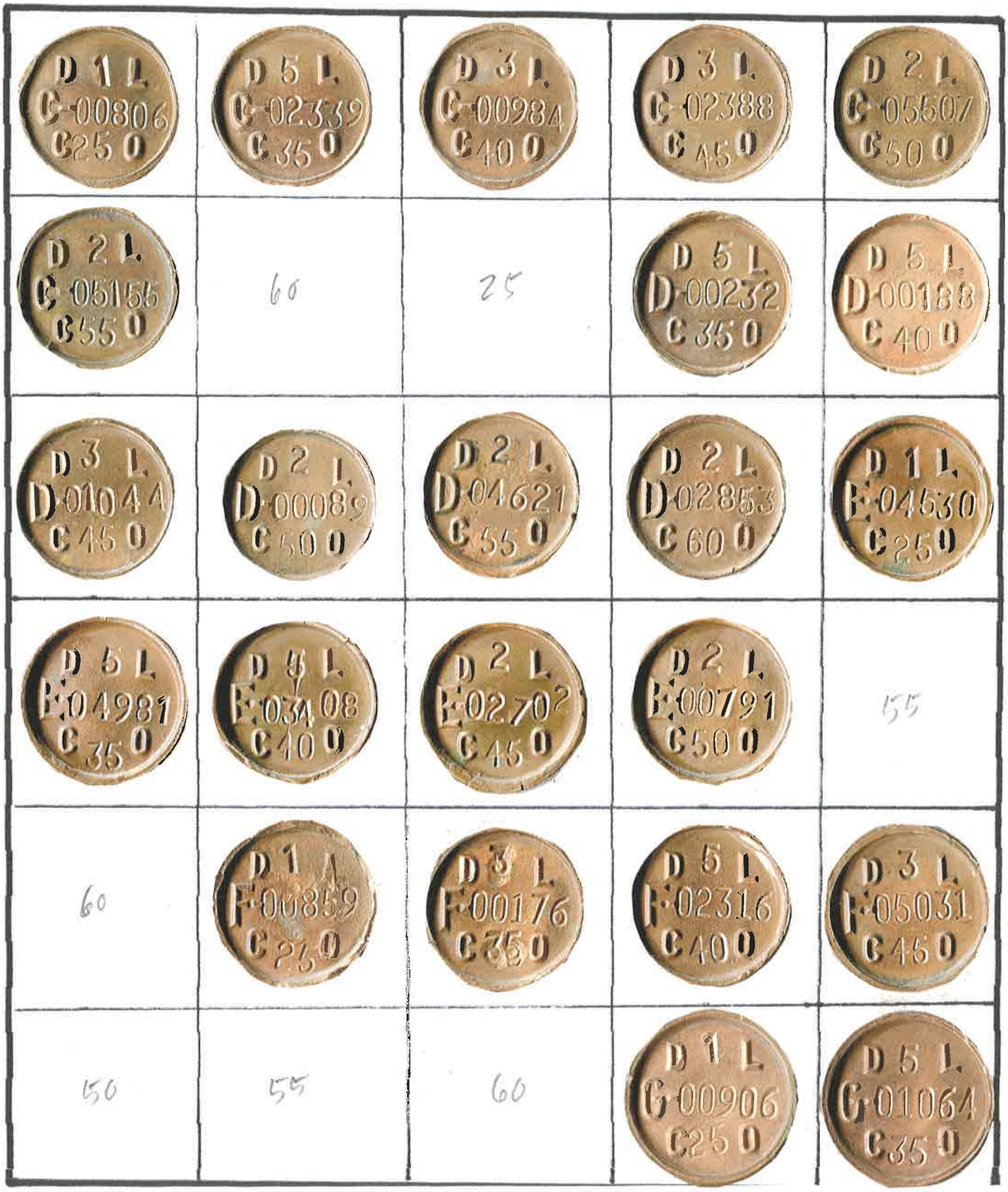
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60

Clintonville Water, Electric & Power (WI)

Apparently there is an opportunity to find thousands of different varieties of these nails since they seem to have the Month, Day and Year they were used. One example is shown here for the years 1959–1973.

Duquesne Light Company

These 1 ¼" copper Hubbard's run from Series C to Series G. I assume there is a Class 1–5 (top number) for each height (bottom number). The concentration here is the variety of heights. Company headquarters in Pittsburgh, PA

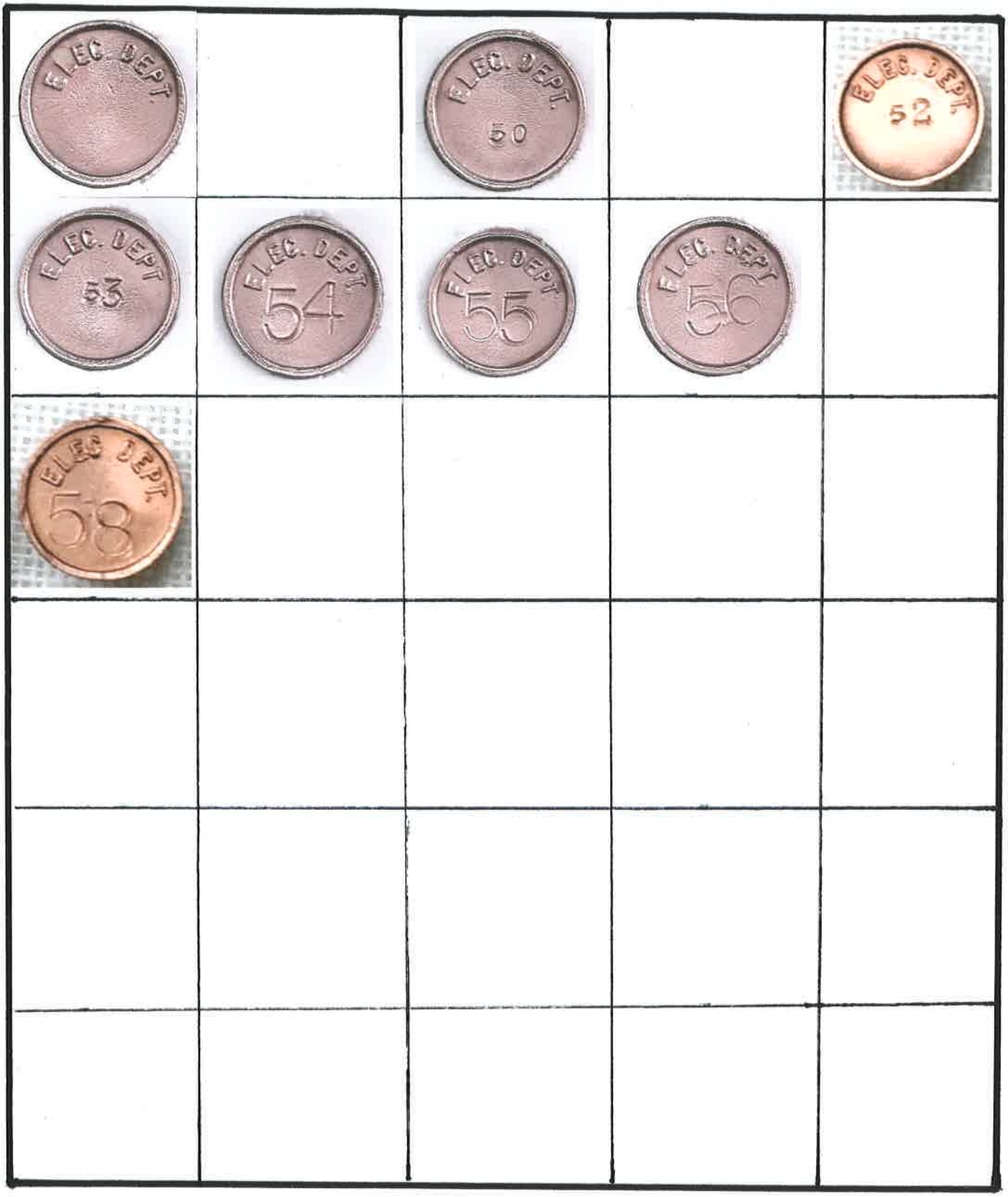


Duquesne Light Co. (cont'd.)

		50	55	60

Electric Department – St. Peter, MN

I spoke with a City representative regarding these nails and they did not have a clue as they said the electric system was put underground years ago!



Hastings Utilities (NB)

All hand stamped nails.

Hawaiian Elect. Co. (HECO)

These are the known large Hubbard's, but there are also many 1" copper nails that were used by them. Top line is pole height, bottom line is year. The first few have the factory made "H". The rest are hand stamped.

Knoxville (TN) Utilities Board

This utility serves the Knoxville Tennessee area and has for many years. They used both these 1 ¼ inch copper Hubbard's as well as 1" (see small copper for those)

Small Copper 1" (Index)

61. .....
62. City of Alma, NB
63. Potomac Electric Co. Washington, DC
64 Potomac Electric Co. Washington, DC
65. .....
66. Appalachian Electric Power West Virginia (See set)
67. .....
68. Ajax Springfield, MO
69. .....
70. Arkansas/Missouri Power Co. Blythville, Arkansas
71. Arkansas/Missouri Power Co. Blythville, Arkansas
72. Arkansas/Missouri Power Co. Blythville, Arkansas
73. .....
74. .....
75. Potomac Electric Co. Washington, DC
76. Potomac Electric Co. Washington, DC
77. .....
78. Benton Harbor St. Joseph (MI) Railway & Light Co.
79. .....
80. Bessemer & Lake Erie Railroad 1957 Pole Nail
81. .....
82. Benton County Public Utility Dist. (WA) 1953
83. .....
84. Benton County Public Utility Dist. (WA) 1956
85. .....
86. Board of Public Works Grand Haven/Holland (MI)
87. Board of Public Works Grand Haven/Holland (MI) 46
88. Board of Public Works Grand Haven/Holland (MI) 48
89. Board of Public Works Grand Haven/Holland (MI) 47
90. .....
91. City of Rushville (IN)
92. City of Rushville (IN)
93. .....
94. Potomac Electric Co. Washington, DC
95. Potomac Electric Co. Washington, DC
96. .....
97. Carolina Telephone & Telegraph Co.
98. Carolina Telephone & Telegraph Co.
99. Carolina Telephone & Telegraph Co. Joint
100. .....
101. City of Cedar Falls, Iowa
102. .....

Small Copper 1" (Index - cont'd.)

103. Chase Brass & Copper Co. 1935
104. .....
105. Illinois Telephone Co. Jacksonville, (IL)
106. City St. Paul, (NB)
107. City St. Paul, (NB)
108. .....
109. City ? ? ?
110. City ? ? ?
111. .....
112. City Georgetown, (TX)
113. City David City, (NB)
114. City Grand Island, (NB)
115. .....
116. City Poplar Bluff, (NB)
117. City Poplar Bluff, (NB)
118. City Poplar Bluff, (NB)
119. City Poplar Bluff, (NB)
120. City Poplar Bluff, (NB)
121. .....
122. City ? ? ?
123. City ? ? ?
124. City Southern NB
125. .....
126. City Broken Bow, (NB)
127. .....
128. City Beatrice, (NB)
129. City Beatrice, (NB)
130. .....
131. City 19 FT Several Cities used this type nail
132. City 1938 FT Several Cities used this type nail
133 City 1967 35FT Several Cities used this type nail
134. City 1928 User Unknown
135. City 1937 South Dakota a
136. City (HS) Possibly Shelby, (NC)
137. City (HS) 28 Possibly Shelby, (NC)
138. City (HS) Possibly Shelby, (NC)
139. City (HD) 29 Possibly Shelby, (NC)
140. .....
141. City of Coeur D'Alene, (ID)
142. City of Kimball, (NB)
143. City of Madison, (NB)
144. City of Minden 1930 (NB)

Small Copper 1" (Index - cont'd.)

145. City of Minden 1930 (NB)
146. City of Minden 1931 (NB)
147. .....
148. City of Shelby, (NC)
149. City of Shelby, (NC) 2 1/2 inch shank
150. City of Shelby, (NC) 3 inch shank
151. City of Spencer, Iowa
152. City of Spencer, Iowa 48
153. .....
154. .....
155. City of High Point, (NC)
156. .....
157. City Light & Power Elk Point, (SD) 193
158. City Light & Power Elk Point, (SD) 1931
159. .....
160. Consumers Light Hastings, (NB)
161. Consumers Light Hastings, (NB) 5
162. Consumers Light Hastings, (NB) 44
163. Consumers Light Hastings, (NB) 55
164. .....
165. Central Maine Power Co. 1931
166. .....
167. Central Maine Power Co. 1933
168. Central Maine Power Co. 1934
169. Central Maine Power Co. 1934
170. Central Maine Power Co. 1936
171. .....
172. Consumers Power or Central Power Co. (NB)
173. .....
174. Consumers Public Power Dist. (NB) 1942
175. Consumers Public Power Dist. (NB) 1945
176. CPSCO Alamogordo, (NM)
177. .....
178. City Utilities Commission Corbin, (KY)
179. CWL Farmington, (MO)
180. .....
181, Potomac Electric Co. Washington, DC
182, ...
183. Dakota Power Rapid City, (SD)
184. Dakota Power Rapid City, (SD)
185. .....

Small Copper 1" (Index - cont'd.)

186. Durham Public Service (NC)
187. Durham Public Service (NC)
188. .....
189. Duquesne Lighting Co. Pittsburgh, (PA) (See set)
190. .....
191. Empire District (MO, KS, AR, and OK)
192. Potomac Electric Co. Washington, DC
193. EMP Co. Millaca, (MN)
194. EMP Co. 35. Millaca, (MN)
195. El Paso Electric Co. (TX) (See set)
196. Estes Park Light & Power (CO)
197. Estes Park Light & Power (CO) 195
198. .....
199. East Sr. Louis Light & Power Co. (IL) (See set)
200. Potomac Electric Co. Washington, DC
201. FD 52 Fort Dodge, (IA)
202. FE Fort Sumner, (NM)
203. .....
204. Potomac Electric Co Washington, DC
205. GE 1929 Probably Gulf Oil Co. and not Galveston Electric (?)
206. .....
207. Potomac Electric Co. Washington, DC
208. Hawaiian Electric Co. (HI) (See set)
209. Humble Oil & Refinery Co. (TX)
210. Home Telephone Co.
211. Hope Water & Light (AR) 1938
212. Hope Water & Light (AR) 1939
213. .....
214. Hobbs Power & Light Co. Hobbs, (NM)
215. HW, Houston Wood Preserving Co. (TX)
216. Indiana & Michigan Power Co. 1935
217. Indiana & Michigan Power Co. 1936
218. Indiana & Michigan Power Co. 1936
219. Indiana & Michigan Power Co. 1937
220. Indiana & Michigan Power Co. 1938
221. .....
222. Interstate Power Co. (IA)
223. Interstate Power Co. (IA)
224. .....
225. .....

Small Copper 1" (Index - cont'd.)

226. Iowa Public Service Co,
227. .....
228. Iowa Southern Utilities 35
229. .....
230. Indiana Telephone Co. (Southern IN) 45
231. Indiana Telephone Co. (Southern IN) 46
232. Indiana Telephone Co. (Southern IN) 47
233. Indiana Telephone Co. (Southern IN) 48
234. .....
235. .....
236. Joint Owner Torrington, (WY)_ and Sussex Tel. (NJ).
237. Joint owner of pole. Eastern Penn. and Northwest NJ
238. Joint owner of pole. Eastern Penn. and Northwest NJ
239. Potomac Electric Co. Washington, DC
240. .....
241. .....
242. Knoxville Power & Light (TN) 27
243. .....
244. Knoxville Power & Light (TN) 29
245. Knoxville Power & Light (TN) 1930
246. Knoxville Power & Light (TN) 1930
247. Knoxville Utility Board (TN). (See set)
248. Kansas Gas & Electric Co. (See set)
249. Kentucky Utilities Co. 1930
250. Kentucky Utilities Co. 1931
251. Kentucky Utilities Co. 1931
252. .....
253. Potomac Electric Co. Washington, DC
254. Long-Bell Lumber Co. Houston, (TX) 1929
255. Long-Bell Lumber Co. Houston, (TX) 1931
256. .....
257. Luverne Light & Power Luverne, (MN)
258. .....
259. Potomac Edison Washington, DC
260 Maui Electric Co. Ltd. (HI) (See set)
261. Muscatine Electric Power Muscatine, (IA)
262. .....
263. Municipal Light & Power North Platte, (NB)
264. Municipal Light & Power North Platte, (NB)
265. Municipal Light & Power Madisonville, (KY) 1928
266. Municipal Light & Power Madisonville, (KY) 1929
267. .....

Small Copper 1" (Index - cont'd.)

268. Municipal Plant Hagerstown, (MD) 467
269. Municipal Plant Hagerstown, (MD) 800
270. Municipal Plant Hagerstown, (MD) 2255
271. Mesilia Valley Electric Co. (NM and far Western TX) (See set)
272. .....
273. Municipal Water, Light & Power Lincoln, (NB)
274. .....
275. Mt. Olive, (IL)
276. .....
277. Potomac Electric Co. Washington, DC
278. Nebraska Central Telephone
279. .....
280. New Mexico Electric Service 61 Hobbs, (NM)
281. New Mexico Power Santa Fe, (NM) 1927
282. New Mexico Power Santa Fe, (NM) 1928
283. New Mexico Power Santa Fe, (NM) 1929
284. New Mexico Power Santa Fe, (NM) 1930
285. .....
286. Norwalk , (OH) 1959
287. Norwalk, (OH) 1960
288. .....
289. NP&L CO Ellendale, (SD)
290. .....
291. North Western Public Service Co.
292. North Western Public Service Co. 581
293. North Western Public Service Co. (NB and Southeastern SD) (See set)
294. .....
295. Potomac Electric Co. Washington, DC
296. Ohio Power Co.
297. .....
298. Ohio Public Service Co. (See set)
299. Omaha Public Power District Omaha, (NB) (See set)
300. .....
301, Potomac Electric Co. Washington, DC
302. .....
303. Potomac Edison Co. (?) Cumberland, (MD)
304. .....
305. Pennsylvania Central Light & Power Co. (See Set)
306. .....
307. Pennsylvania Edison Co. Altoona, (PA)

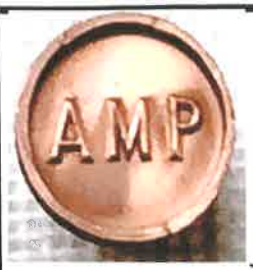
Small Copper 1" (Index - cont'd.)

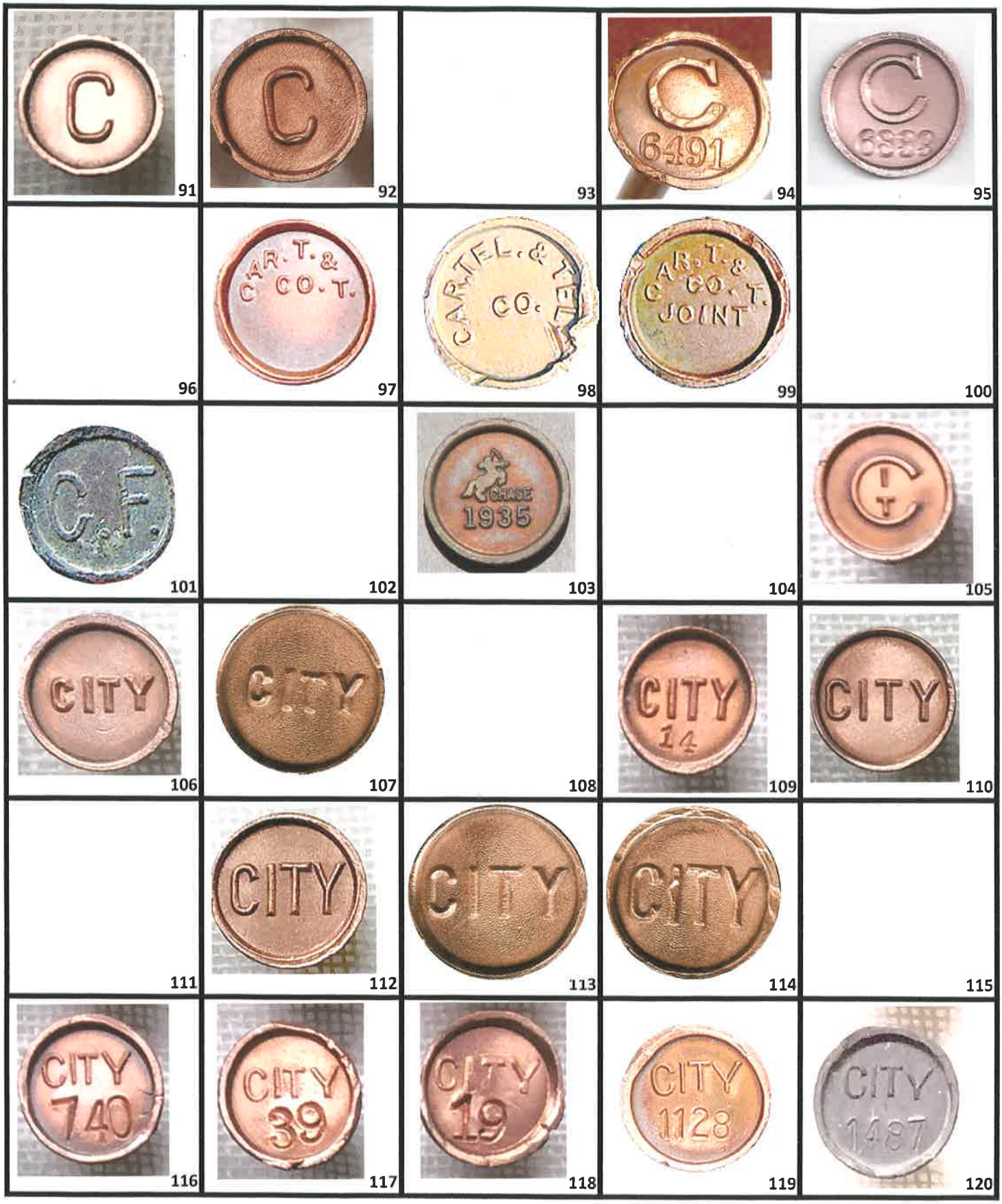
308. .....
309. Home Telephone Co. Portsmouth, (OH)
310. Home Telephone Co. Portsmouth, (OH)
311. PP McCook, (NB)
312. PP McCook, (NB)
313. .....
314. Paris Utilities Paris, (TN)
315. .....
316. Potomac Electric Co. Washington, DC
317. Potomac Electric Co. Washington, DC
318. Ridgeley Light & Power Co. Wrigley, (WVA)
319. .....
320. Savannah Electric & Power Co. Savannah, (GA) (See set)
321. Southwest Ohio Power Co. Cincinnati (OH) area (See set)
322. South Sioux City (NB) 1941 30FT
323. South Sioux City (NB) 1941 35FT
324. South Sioux City (NB) 1941 40FT
325. .....
326. .....
327. Texas Creosoting Co. 1929
328. Texas Creosoting Co. 1931
329. .....
330. TCSCO 1928 Johnson City, (TN)
331. .....
332. Tennessee Eastern Electric Co. Johnson City, (TN) 1929
333. Tennessee Eastern Electric Co. Johnson City, (TN) 1930
334. .....
335. Tuskegee Light & Power Tuskegee, (AL) 36
336. Tuskegee Light & Power Tuskegee, (AL) 37
337. .....
338. Texas-New Mexico Utiltiies
339. Tennessee Public Service Co. Knoxville, (TN) (See set)
340. .....
341. Tri States Telephone & Telegraph Co.
342. TWPS Co McCook, (NB)
343. .....
344. Union Electric Co. (ILLINOIS) (See set)
345. Union Gas & Electric Co. Cincinnati (OH) area (See set)
346. Union Light, Heat & Power Co. Cincinnati (OH) area (See set)

Small Copper 1" (Index - cont'd.)

347. .....
348. .....
349. U.S. Coast Guard 17
350. U.S. Coast Guard 22 (Hand Stamped)
351. .....
352. Village of Hamilton, (NY)
353. Water Burley, (ID)
354. W&L J NYT Salamanca, (NY)
355. W&L J NYT Salamanca, (NY)
356. .....
357. West Memphis Power & Water West Memphis, (AR)
358. .....
359. West Texas Utilities
360. .....

Small Copper 1"

61	62	63	64	65
Appalachian Electric Power Co. (See Set) 66	67	68	69	 70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90


C
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6888
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CAR. T. &
CO. T.
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CARTEL. & TEL.
CO.
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CAR. T. &
CO. T.
JOINT
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CHASE
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CITY
740
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CITY
1128
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CITY
1487
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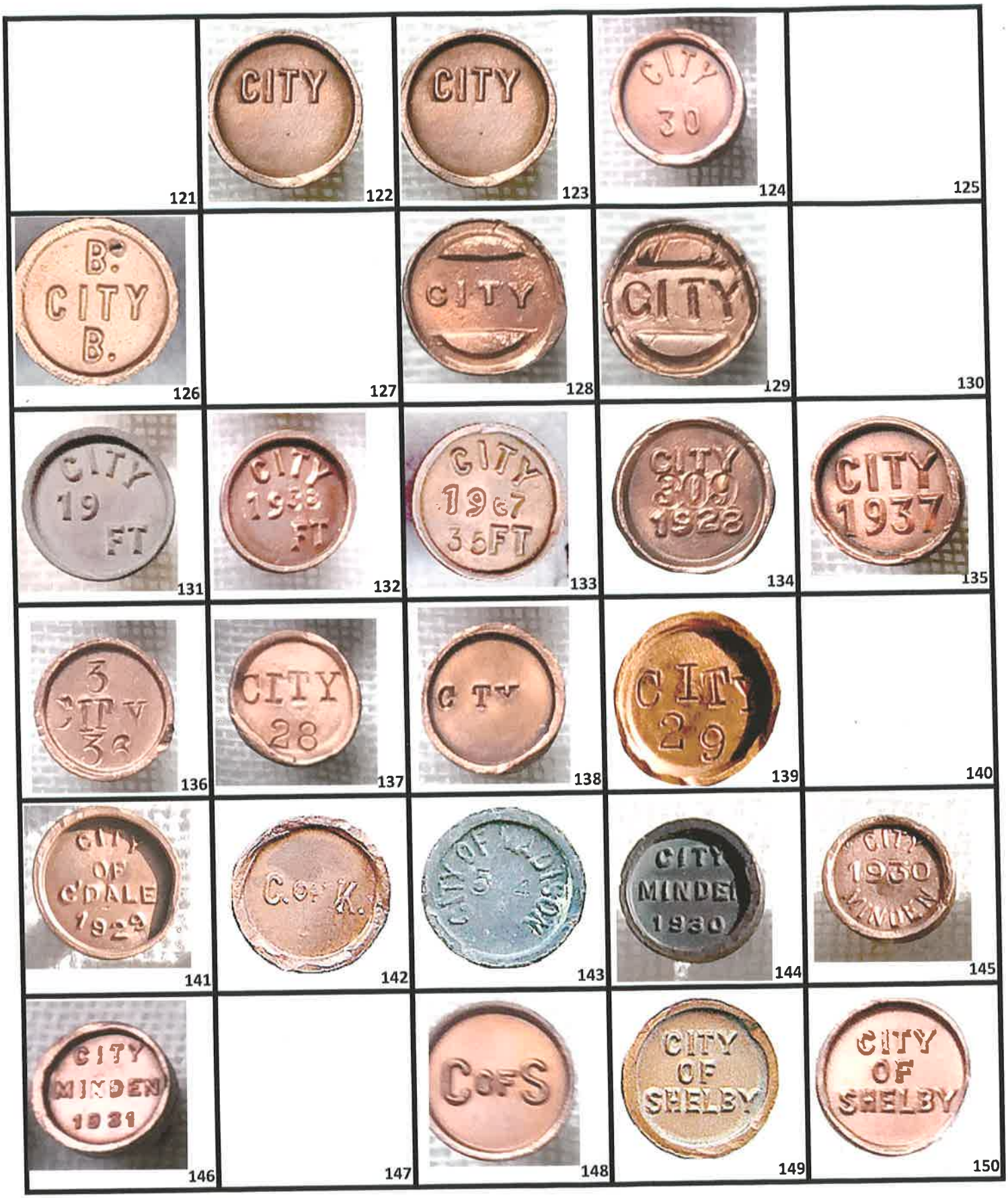
121
CITY
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128
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129
130
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132
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35FT
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1928
134
CITY
1937
135
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36
136
CITY
28
137
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138
CITY
29
139
140
CITY
OF
GDALE
1929
141
C. OF K.
142
CITY OF
143
CITY
MINDEN
1930
144
CITY
1930
MINDEN
145
CITY
MINDEN
1931
146
147
C. OF S.
148
CITY
OF
SHELBY
149
CITY
OF
SHELBY
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Duquesne Light Co. (See Set)
189

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191

192

193

194

El Paso Electric Co. (See Set)
195

196

197

198

East. St. Louis Light & Power Co. (See Set)
199

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201

202

203

204

205

206

207

Hawaiian Electric Co. (See Set)
208

209

210

211	212	213	214	215
216	217	218	219	220
221	222	223	224	225
226	227	228	229	230
231	232	233	234	235
236	237	238	239	240

241	242	243	244	245
246	Knoxville Utility Board (See Set) 247	Kansas Gas & Elect. Co. (See Set) 248	249	250
251	252	253	254	255
256	257	258	259	Maui Electric Bo. (See Set) 260
261	262	263	264	265
266	267	268	269	270

Mesillia Valley Elect. Co. (See Set) 271	272	273	274	275
276	277	278	279	280
281	282	283	284	285
286	287	288	289	290
291	292	No. Western Public Service (See Set) 293	294	295
296	297	Ohio Public Service Co. (See Set) 298	Omaha Public Power District (See Set) 299	300

301

302

303

304

Pennsylvania Central Light & Power Co. (See Set)

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

Savannah Elect. & Power Co. (Dee Set)

320

Southwest Ohio Power Co. (See Set)

321

322

323

324

325

326

327

328

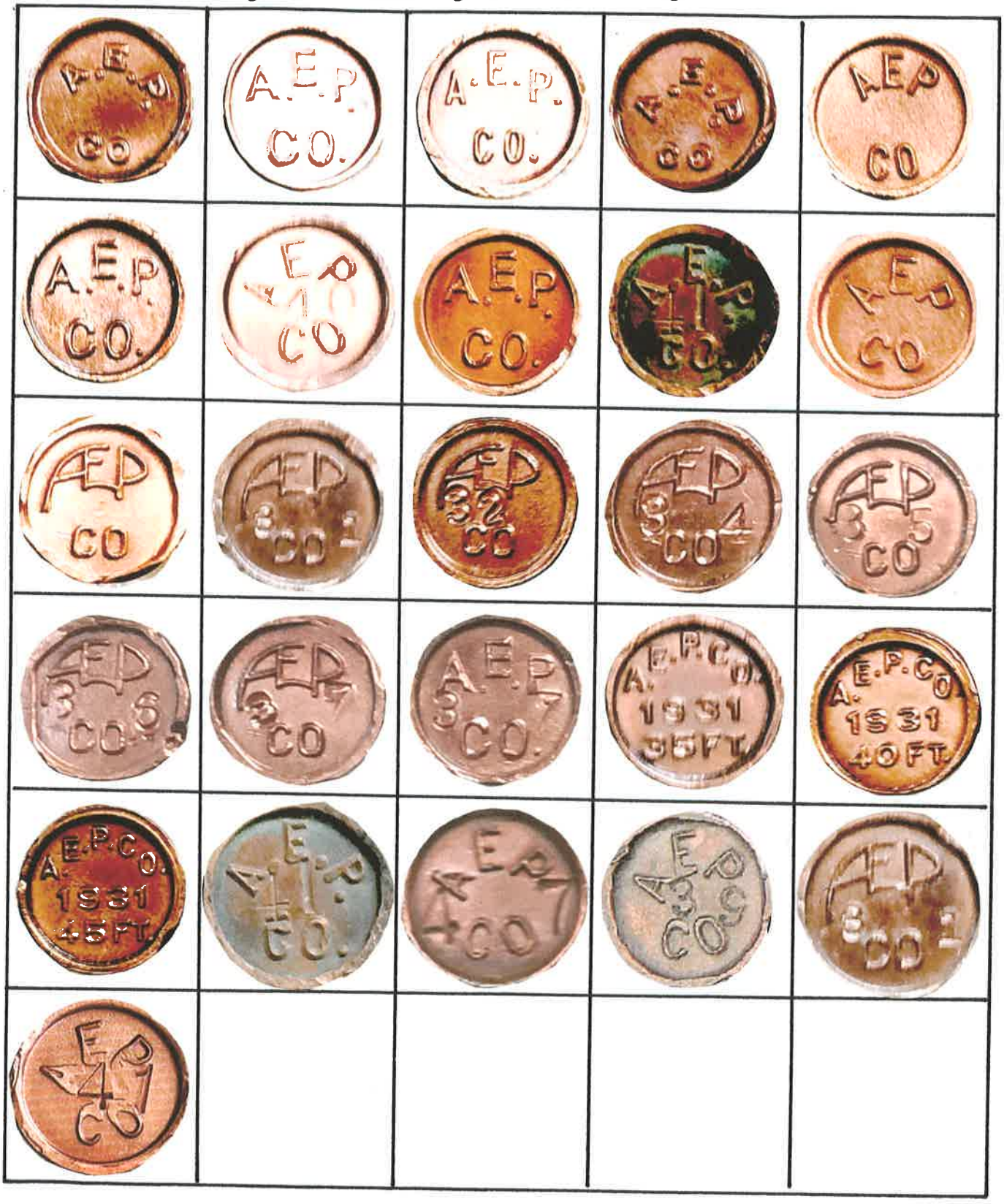
329

330

331	332	333	334	335
336	337	338	Tennessee Pub. Svc. Co. (See Set) 339	340
341	342	343	Union Electric Co. (See Set) 344	Union Gas & Electric Co. (See Set) 345
Union Light Heat & Power (See Set) 346	347	348	349	350
351	352	353	354	355
356	357	WPA 1936 358	359	360

Appalachian Electric Power Co. (1" Copper)

Serving Southern West Virgina and Western Virginia

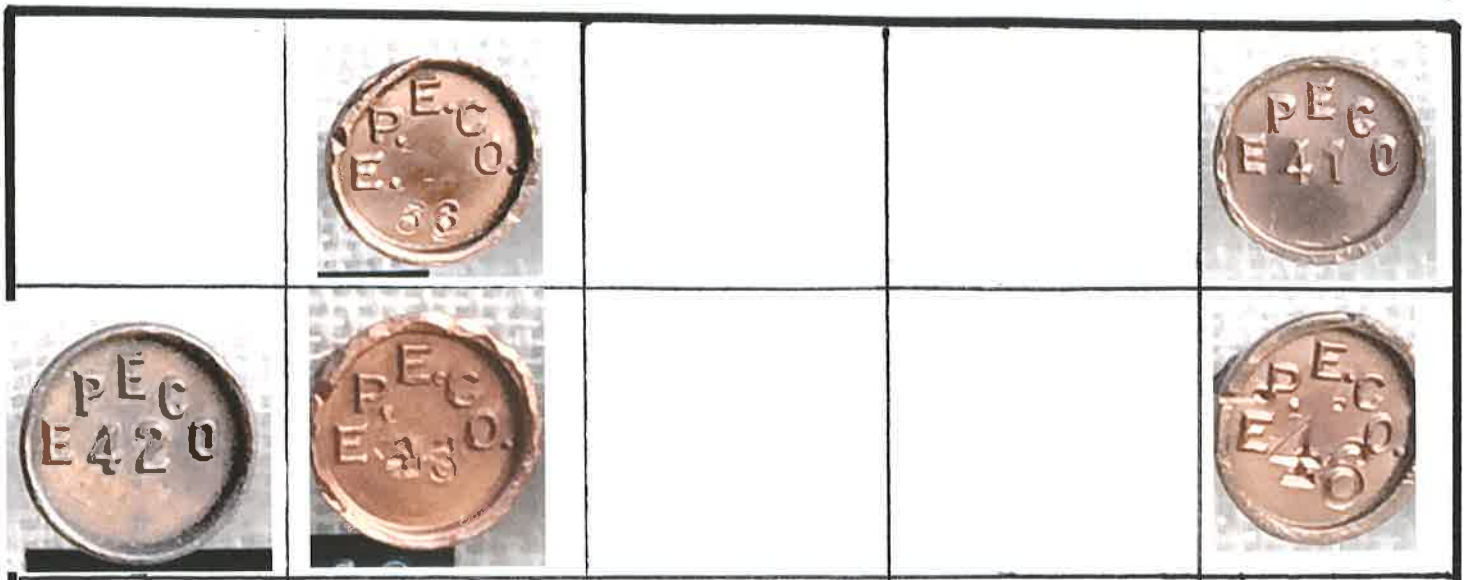


Duquesne Light Company

These 1" copper Hubbard's run Series A and Series B. I assume there is a Class 1–5 (top number) for each height (bottom number)? The concentration here is the variety of heights. Company headquarters is in Pittsburgh, PA

55	60	65	70	
55	60	65		

El Paso Electric Co. (TX)



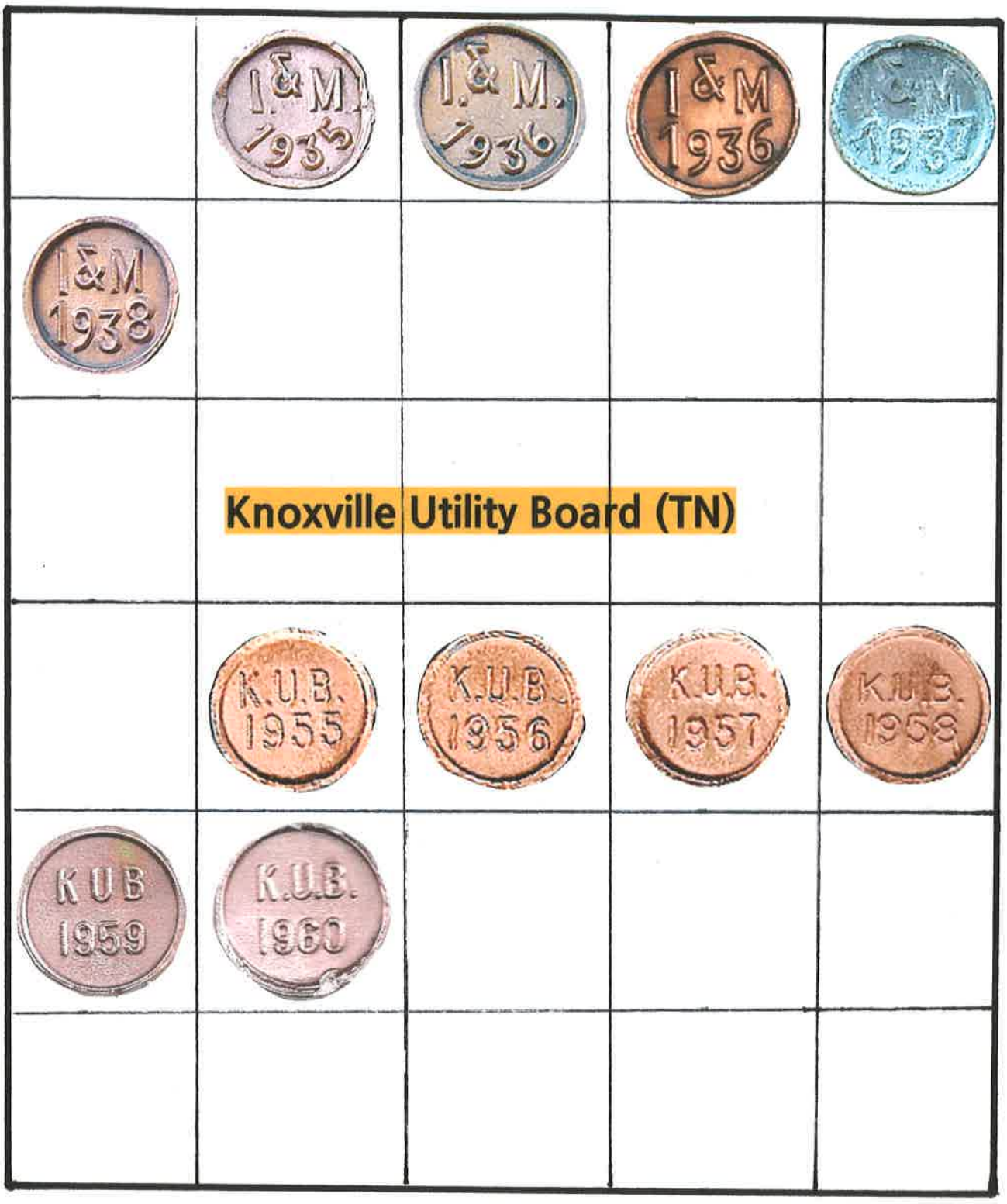
East St. Louis Light & Power Co. (IL)

Hawaiian Electric Co. (HEC) –1" copper

These Hawaiian nails are sometimes mixed up with the Maui Hubbard nails. The Hawaiian nails have large four large numbers or an H to identify them. Top numbers are height, bottom are date. There are also 1 ¼ inch examples of these nails.

Hawaiian Electric Co. (cont'd.)

Indiana / Michigan Power Co.

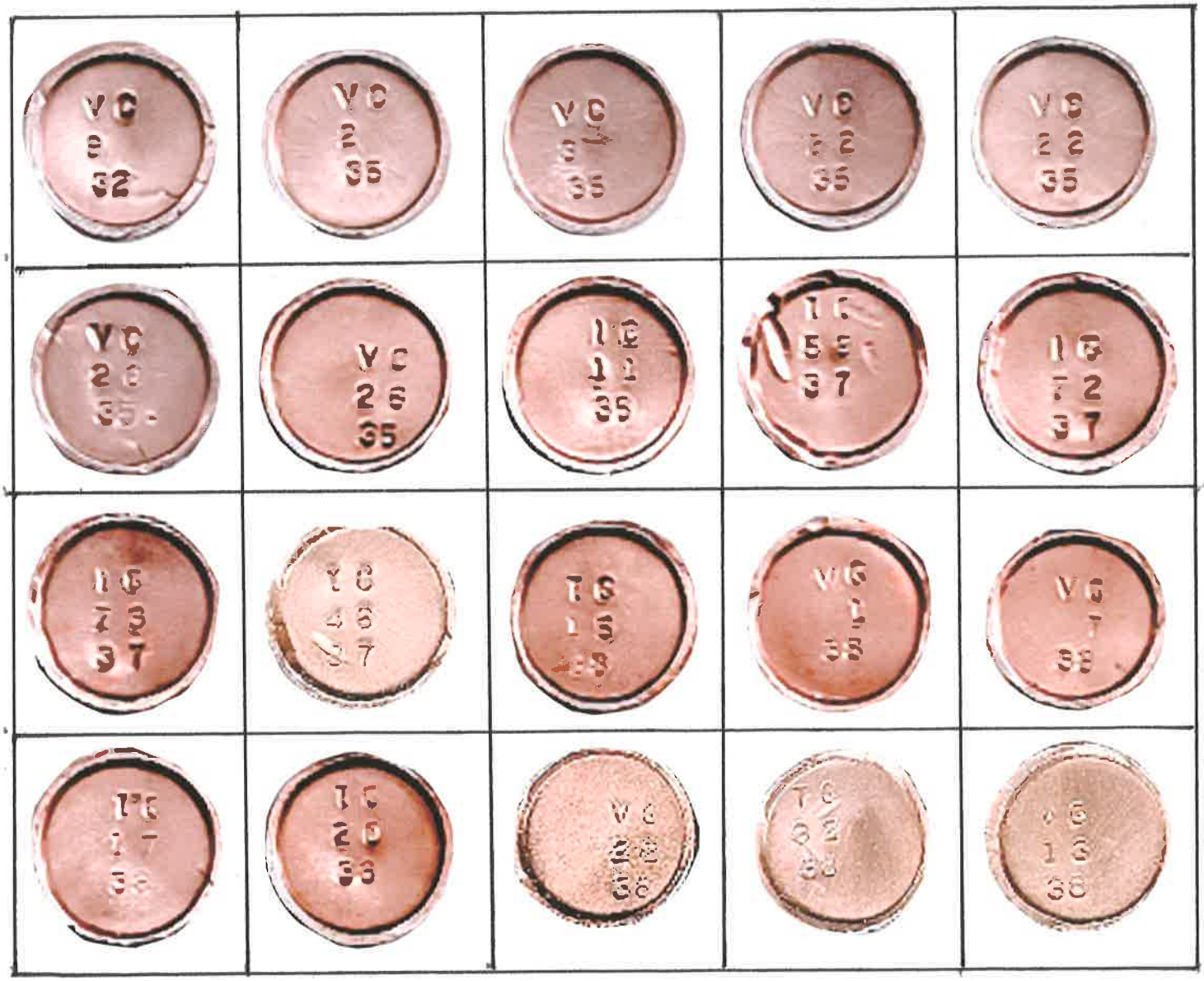


Kansas Gas & Electric Co.

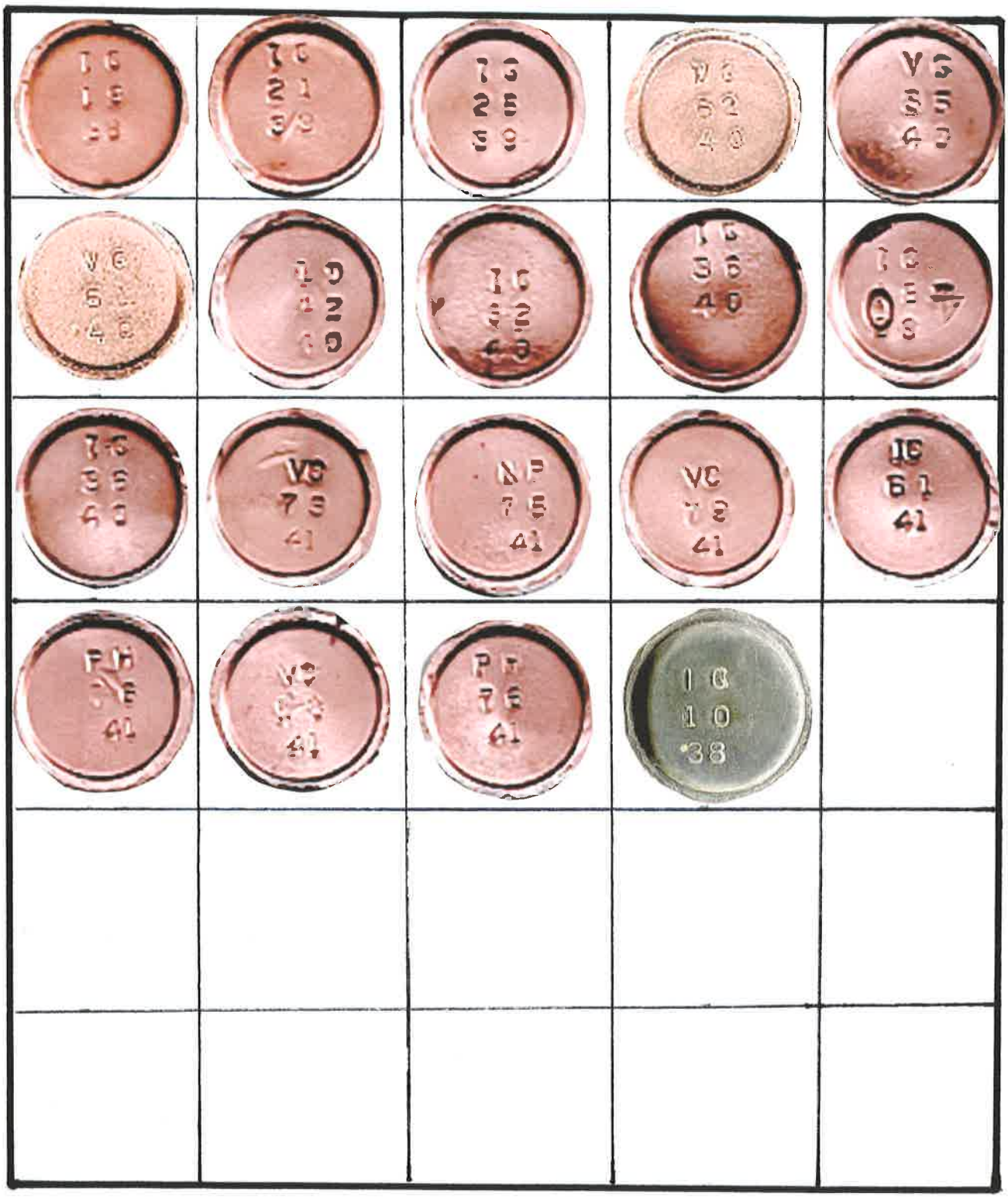
These 1" copper Hubbard's were hand stamped and put into the poles by the pole treating company for the KG&E Co. The top two letters indicate the company that did the treating, the numbers in the middle indicate the batch number of the treatment used and the bottom numbers indicate the year of treatment. Most of these scans and the treatment company list were provided by Skip Kilpatrick (TDNCA 1147).

TREATMENT COMPANY

BV.....
KI – Koppers
MG – Midwest Creosoting
NP – Northern Pole
TC – Texas Creosoting
WH.....
IC & ICC – International Creosoting
LB – Long Bell
NA.....
PH.....
VC – Valentine Clark Pole Co.

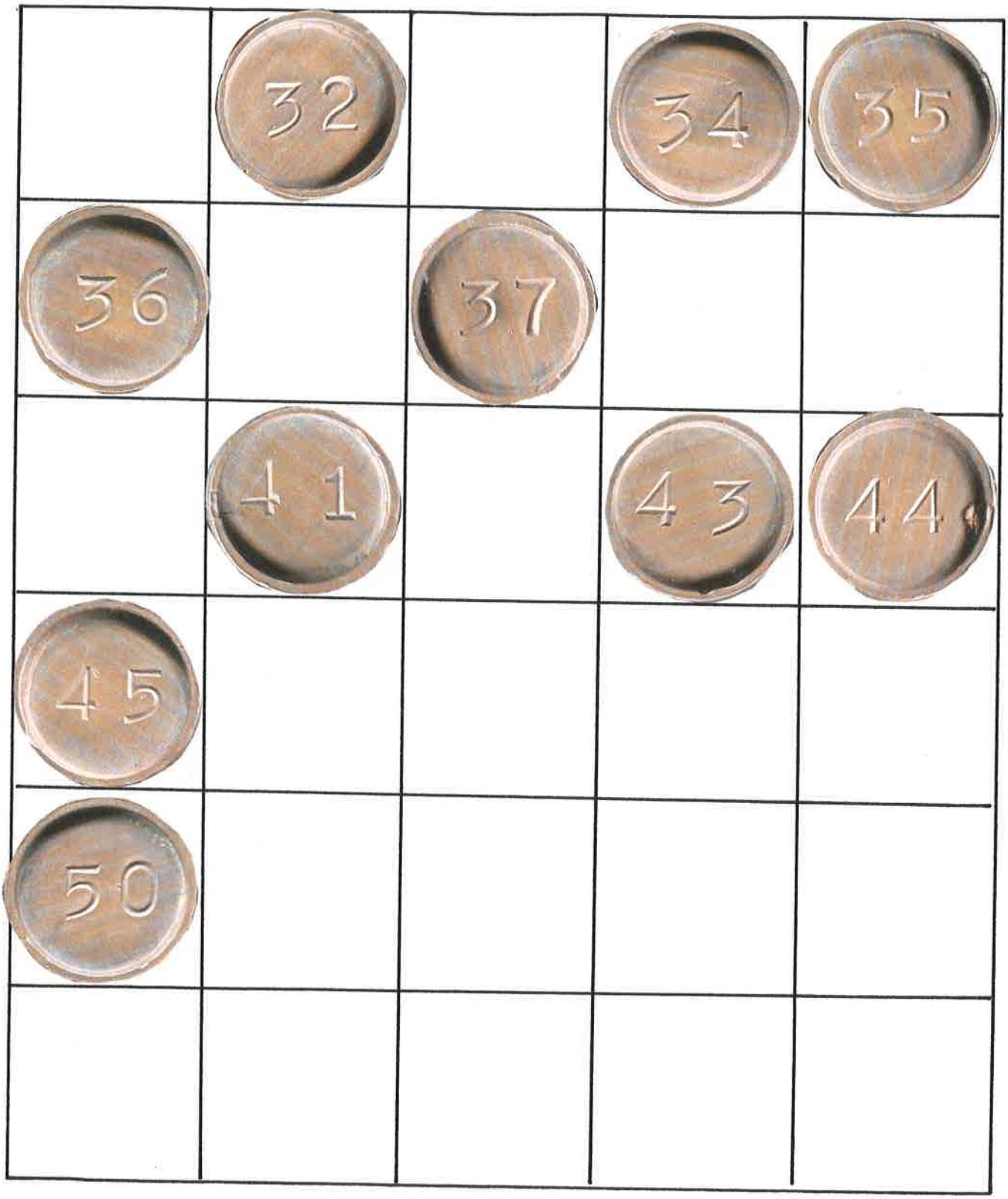


Kansas Gas & Electric Co. (cont'd.)



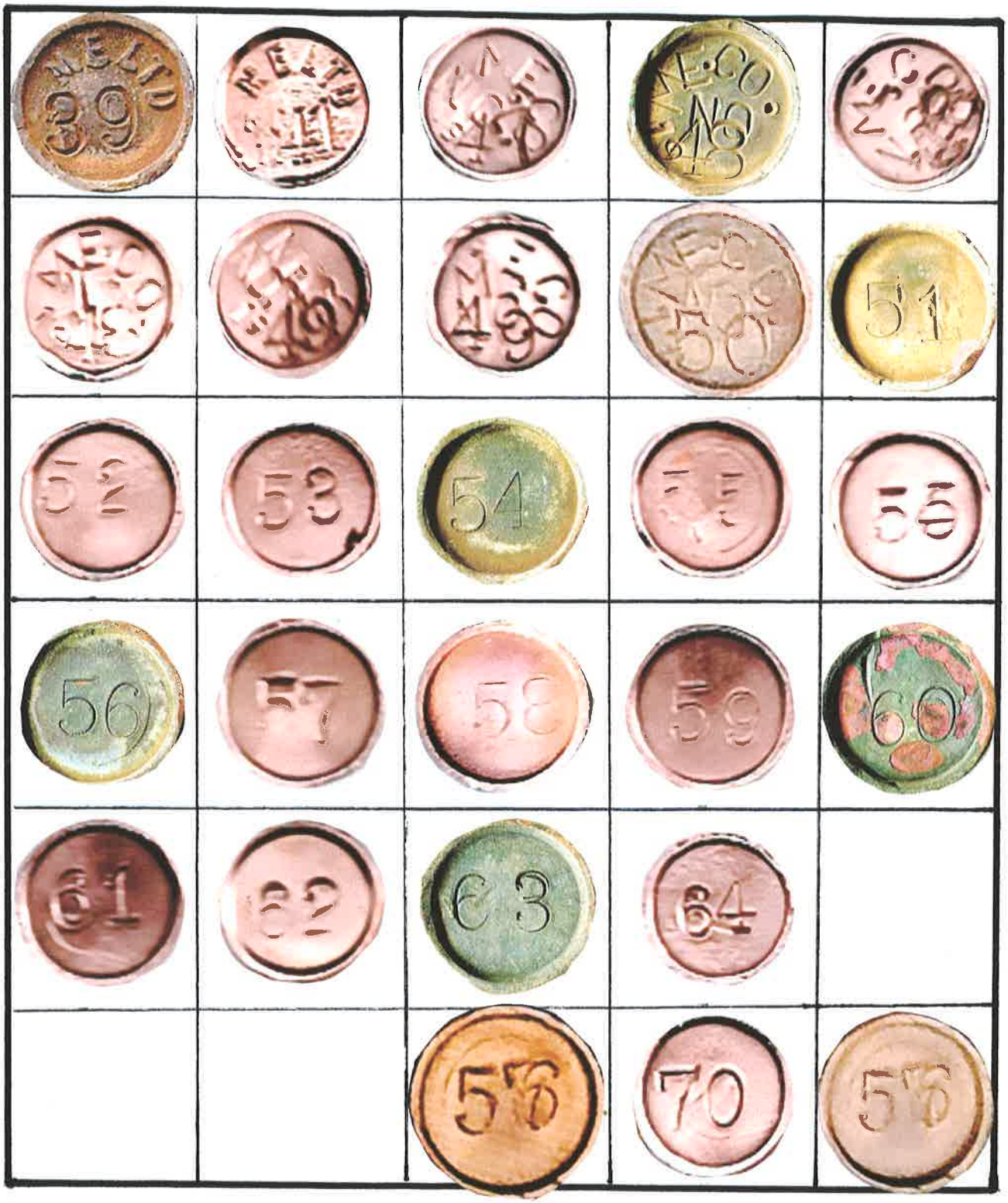
Kennecott Copper Mine – Ruth, NV

As noted, I have not included hand stamped Hubbard nails unless they could be authenticated. These nails came from the Kennecott Copper mine in Ruth, NV. They are all hand stamped and their use is unknown.



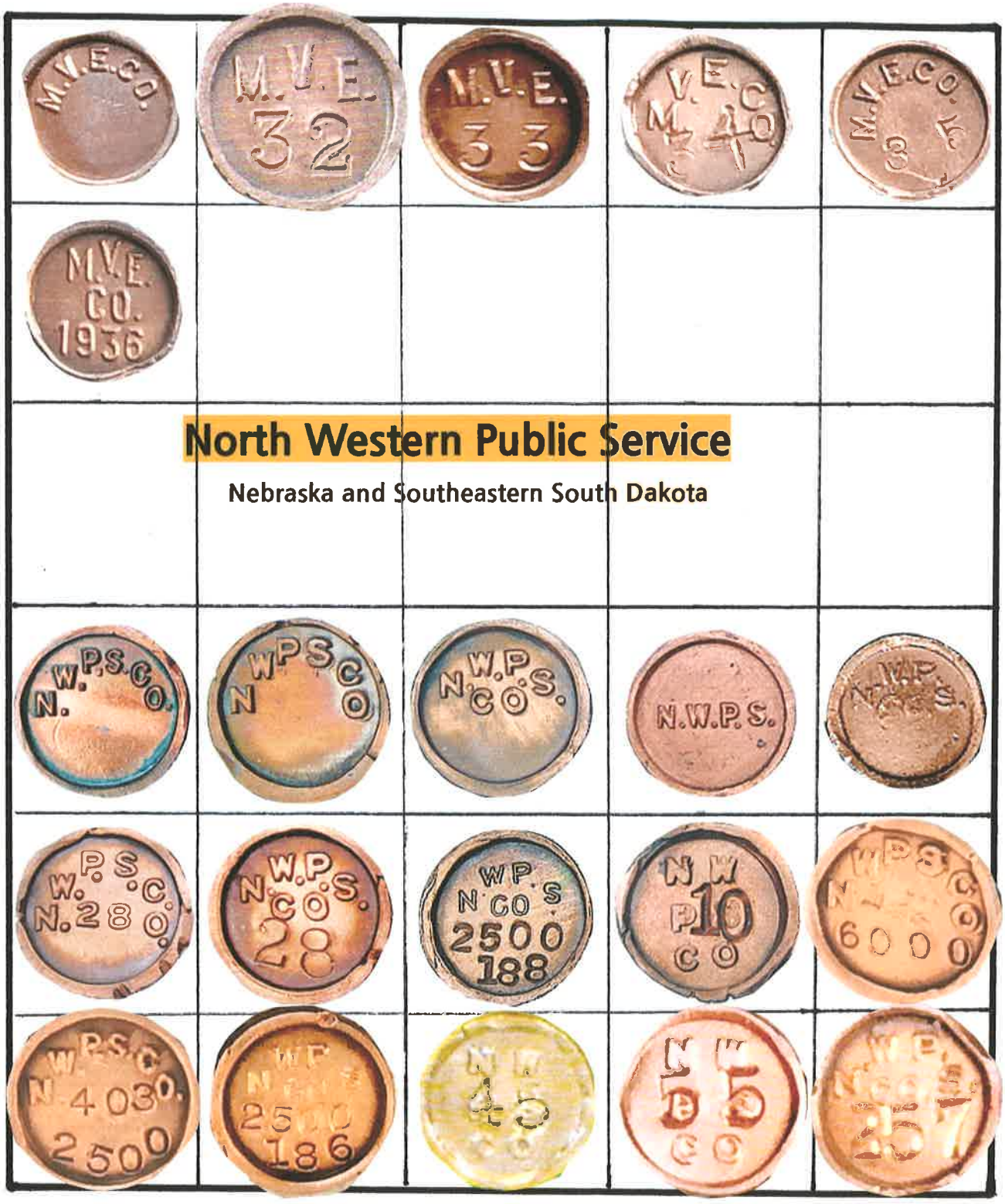
Maui Electric Co. (Hawaii)

They also used some one inch aluminum Hubbard's. The earlier nails are stamped MECO OR ME LTD, but after 1950 only the two digit date was used.



Mesilia Valley Electric Co.

Las Cruces, New Mexico



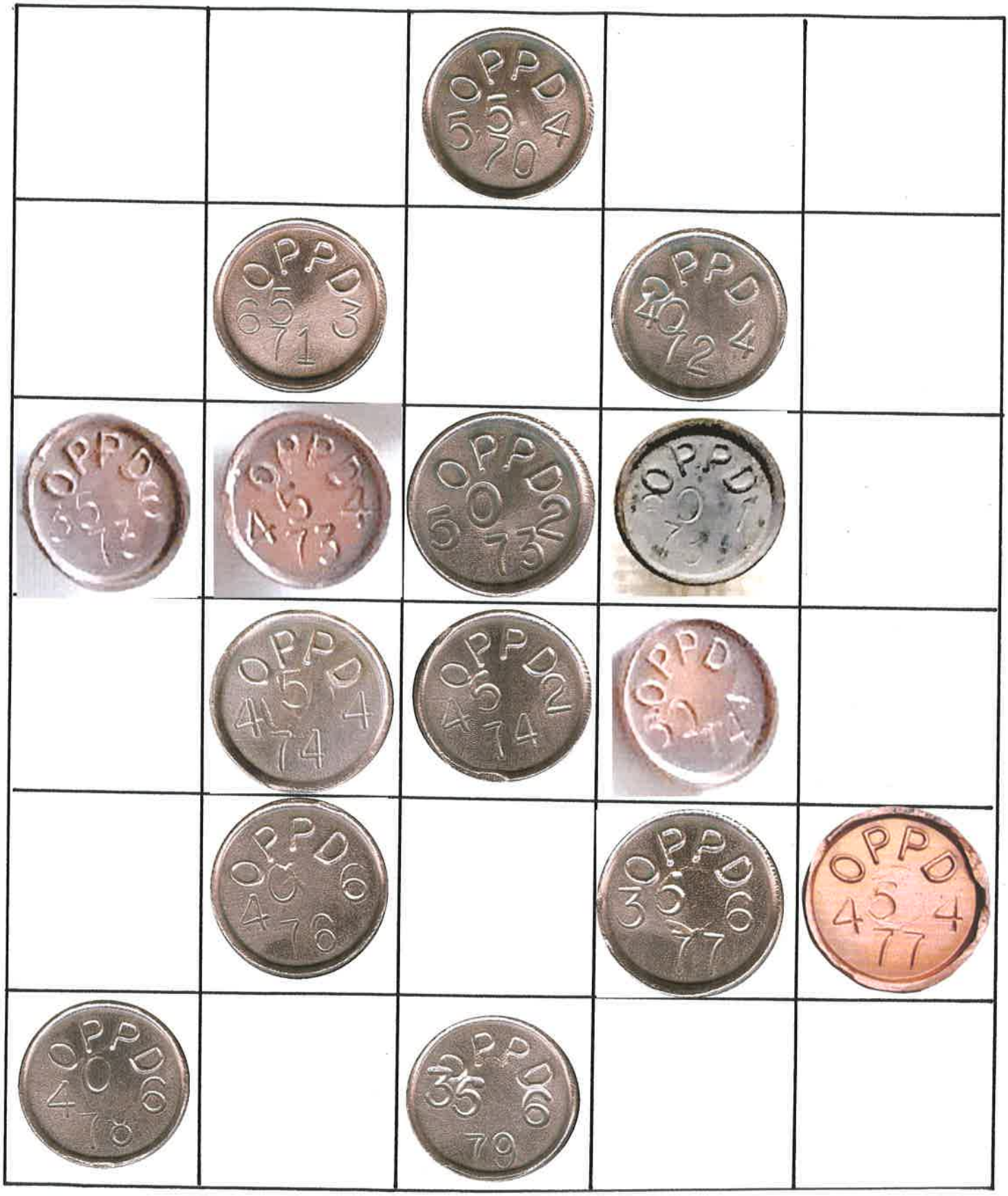
North Western Public Service

Nebraska and Southeastern South Dakota

Omaha Public Power District (NB)

OPPD is factory stamped. Date, pole height and pole class (size) are hand stamped

Omaha Public Power District (NB) – (cont'd.)



Omaha Public Power District (NB) – (cont'd.)

Ohio Public Service Co.

Pennsylvania Central Light & Power Co.

Savannah Electric & Power Co. (GA)

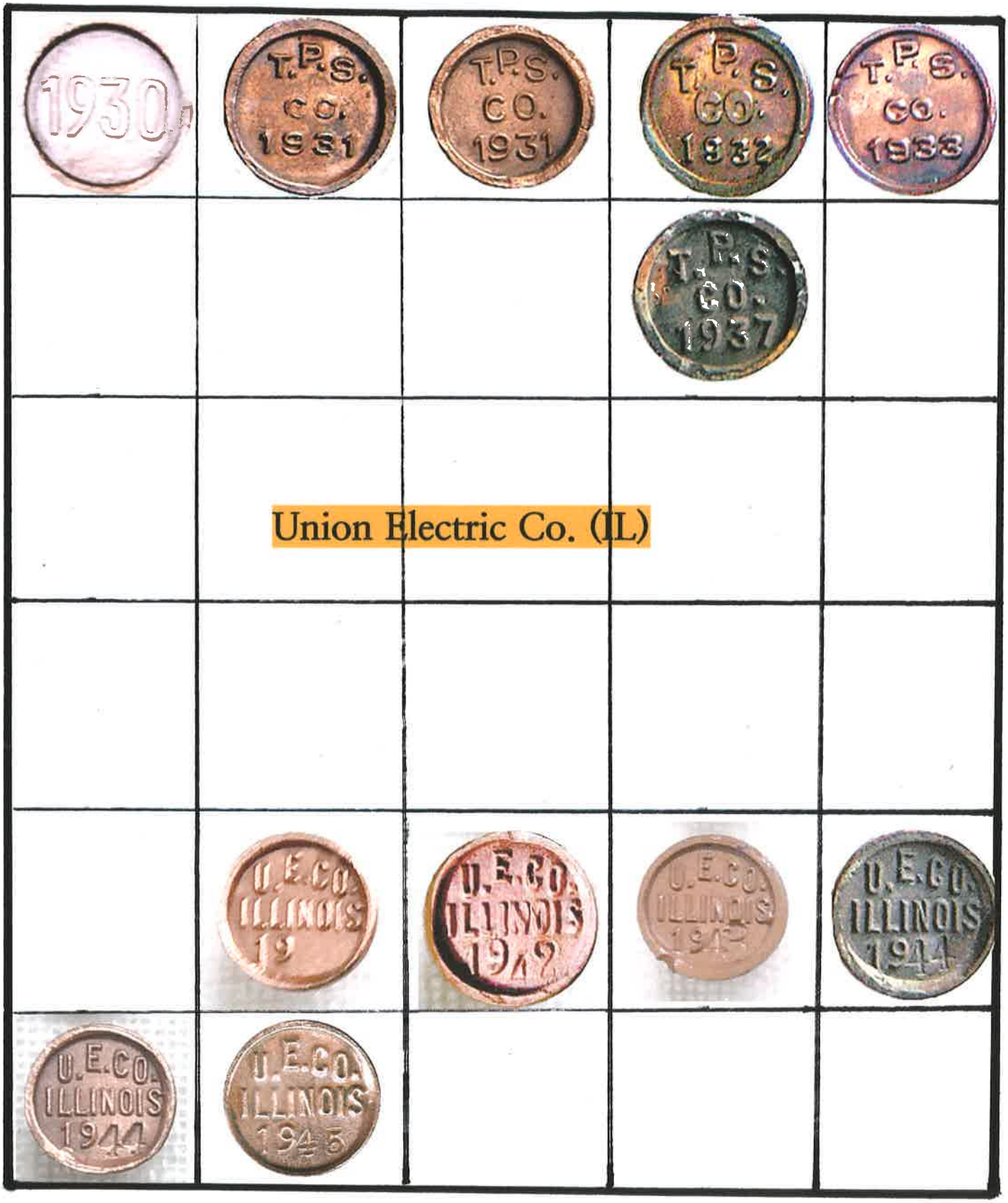
Southwest Ohio Power Co.

See continuation of this set in the Cast Brass section

		33/30		
		36/35		

Tennessee Public Service Co.

Knoxville, TN



Union Electric Co. (IL)

Union Gas & Electric Co. (OH)

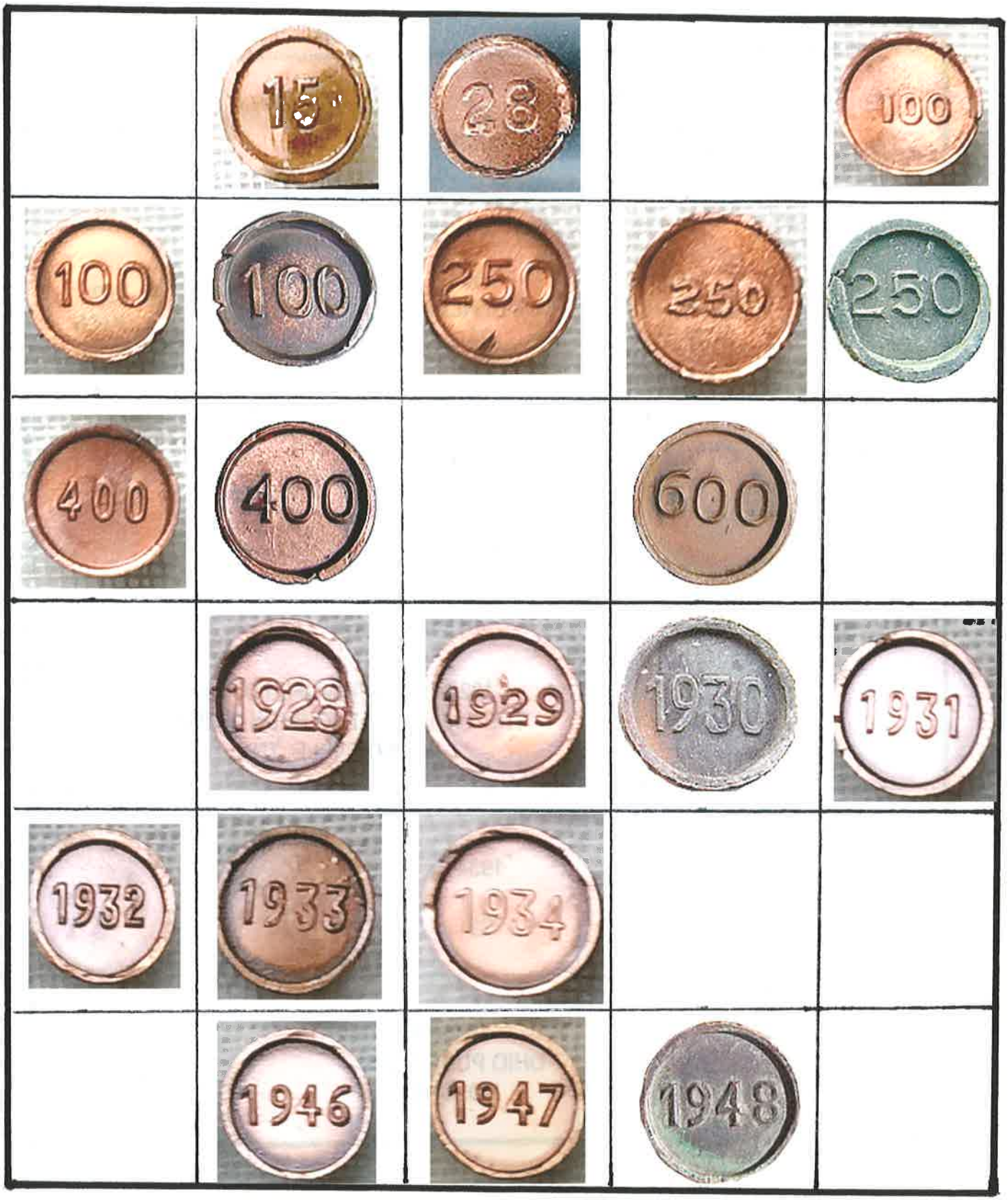
See continuation of this set in the Cast Bronze section

Union Light Heat & Power (KY)

See continuation of this set in the Cast Brass section

Small Copper Numbers (1")

See reverse of this page for listings.



	15 AMPERES SCRANTON, PA	28 MILWAUKEE ROAD POLE		100 MOBERLY, MO
100 SCRANTON, PA	100 NORTHWEST PUB. SVC.	250 CUMBERLAND PA	250 KOBERLY, MO	250 LUMEN
400 ??	400 ??		600 ??	
		1928-1933 SPRINGFIELD, MA THE 1930 HAS ALSO BEEN FOUND IN KNOXVILLE, TN		
		1934 ??		
		1946-48 OHIO PUBLIC SVC NO. OHIO		

Large Aluminum 1 1/2" (Index)

361. Blank
362. .....
363. Black Hills Power & Light Co. Rapid City, (SD)
364. Benton County Public Utility District 1956 40FT (WA)
365. Benton County Public Utility District 1957 40FT (WA)
366. Benton County Public Utility District 1957 40FT (WA)
367. Benton County Public Utility District 1960 45FT (WA)
368. Benton County Public Utility District 1960 40FT (WA)
369. Corporation Dominicana De Electricidad (Dominican Republic)
370. Capital City Telephone Co. Jefferson City, (MO)
371. City A Allegan, (MI)
372. City B Allegan, (MI)
373. City C Allegan, (MI)
374. .....
375. City E Allegan, (MI)
376. City F Allegan, (MI)
377. .....
378. City 19 FT (Unknown specific user)
379. .....
380. .....
381. City Lt & Pr FT (Unknown specific user)
382. .....
383. .....
384. City of Calhoun, (GA)
385. City of Columbus, (??)
386. .....
387. .....
388. City of Guntersville, (AL) Elect. Dept.
389. .....
390. City of New Albany, (MS) Elect. Dept.
391. .....
392. City of Salem, (??)
393. City of Sullivan, (MO)
394. .....
395. City of Vernon, (TX)
396. .....
397. .....
398. CLT Co 19 (User unknown)
399. Central Power Nebraska City, (NB)
400. City Water, Light & Power Between Jacksonville and Springfield, (IL)

Large Aluminum 1 1/2" (Index – cont'd.)

401. .....
402. DSB (Unknown user)
403. .....
404. .....
405. .....
406. Franklin County Public Utility District 1958 (WA)
407. Franklin County Public Utility District 1960 (WA)
408. Franklin County Public Utility District 1961 (WA)
409. .....
410. .....
411. Gas Line Under Pole Monroe, (NC)
412. .....
413. Greenfield Pwr & Light Greenfield, (IN)
414. .....
415. Handcock County, (TN)
416. .....
417. City of Homer, (LA)
418. .....
419. Indiana Bell Telephone Near South Bend, (IN)
420. .....
421. Knoxville Utility Board 1952 Knoxville, (TN)
422. .....
423. .....
424. Lima Telephone & Telegraph Co. 1957 Lima, (OH)
425. Lima Telephone & Telegraph Co. 1958 Lima, (OG)
426. Lima Telephone & Telegraph Co. 1959 Lima, (OH)
427. Lima Telephone & Telegraph Co. 1960 Lima, (OH)
428. Lima Telephone & Telegraph Co. 1961 Lima, (OH)
429. Missouri Public Service (All Hand Stamped) – (See set)
430. MSCO Mississippi Service Company (MS)
431. .....
432. .....
433. Nebraska City Utilities Nebraska City, NB)
434. Nebraska City Utilities Nebraska City, (NB)
435. .....
436. New London, (CT) - All Hand Stamped (See Set)
437. .....
438. ODP Old Dominion Power (VA)
439. .....

Large Aluminum 1 1/2" (Index – cont'd.)

440. Peoples Coop Rochester, (MN)
441. .....
442. Peoples Telephone & Telegraph Hot Springs, (SD)
443. .....
444. Public Utilities Commission 1956 Clarksdale, (MS)
445. Public Utilities Commission 1957 Clarksdale, (MS)
446. Public Utilities Commission 1958 Clarksdale, (MS)
447. Public Utilities Commission 1963 Clarksdale, (MS)
448. .....
449. .....
450. Rural Electric Association Rush County Cooperative (IN)
451. .....
452. Sevier County Electric Service Sevier County, (TN)
453. .....
454. .....
455. .....
456. Tucumcari Power & Light Tucumcari, (NM)
457. Tucumcari Power & Light Tucumcari, (NM)
458. Tucumcari Power & Light Tucumcari, (NM)
459. .....
460. .....
461. West Arkansas Telephone Co 1957 (AK)
462. West Arkansas Telephone Co 1958 (AK)
463. West Arkansas Telephone Co 1959 (AK)
464. West Arkansas Telephone Co 60 (AK) -Hand Stamped
465. West Arkansas Telephone CO 1960 (AK) -Hand Stamped

Large Aluminum 1 1/2" Numbers & Lumens

Lumen markings are found on poles supporting a street light. They show the size of the light bulb. (Lumen is a unit of measure for the flow of light, equal to the amount of flow through a unit solid angle from a uniform point source of one international candle)

481. .....
482. 1
483. 1
484. .....
485. 2
486. 2
487. .....
488. 4 Cambridge Electric Light Co. (MA)
489. .....
490. 405
491. .....
492. 1000 Lumen
493. 1,000 Lumen
494. .....
495. 1500 Lumen
496. 2,500 Lumen
497. 2500 Lumen
498. 2500 Lumen
499. 3500 Lumen
500. 4000 Lumen
501. 4,000 Lumen
502. 6000 Lumen
503. 6,000 Lumen
504. 7,000 Lumen
505. 7000 Lumen
506. 10,000 Lumen
507. 11,000 Lumen
508. .....
509. 20,000 Lumen
510. 20,000 Lumen

Large Aluminum Hubbard's (1 1/4")

Large Aluminum Hubbard's (cont'd.)

391	392	393	394	395
396	397	398	399	400
401	402	403	404	405
406	407	408	409	410
411	412	413	414	415
416	417	418	419	420

Large Aluminum Hubbard's (cont'd.)

421	422	423	424	425
426	427	428	MPS MO Public Sve. (See Set) 429	430
431	432	433	434	435
New London,CT All Hand Stamped (See Set) 436	437	438	439	440
441	442	443	444	445
446	447	448	449	450

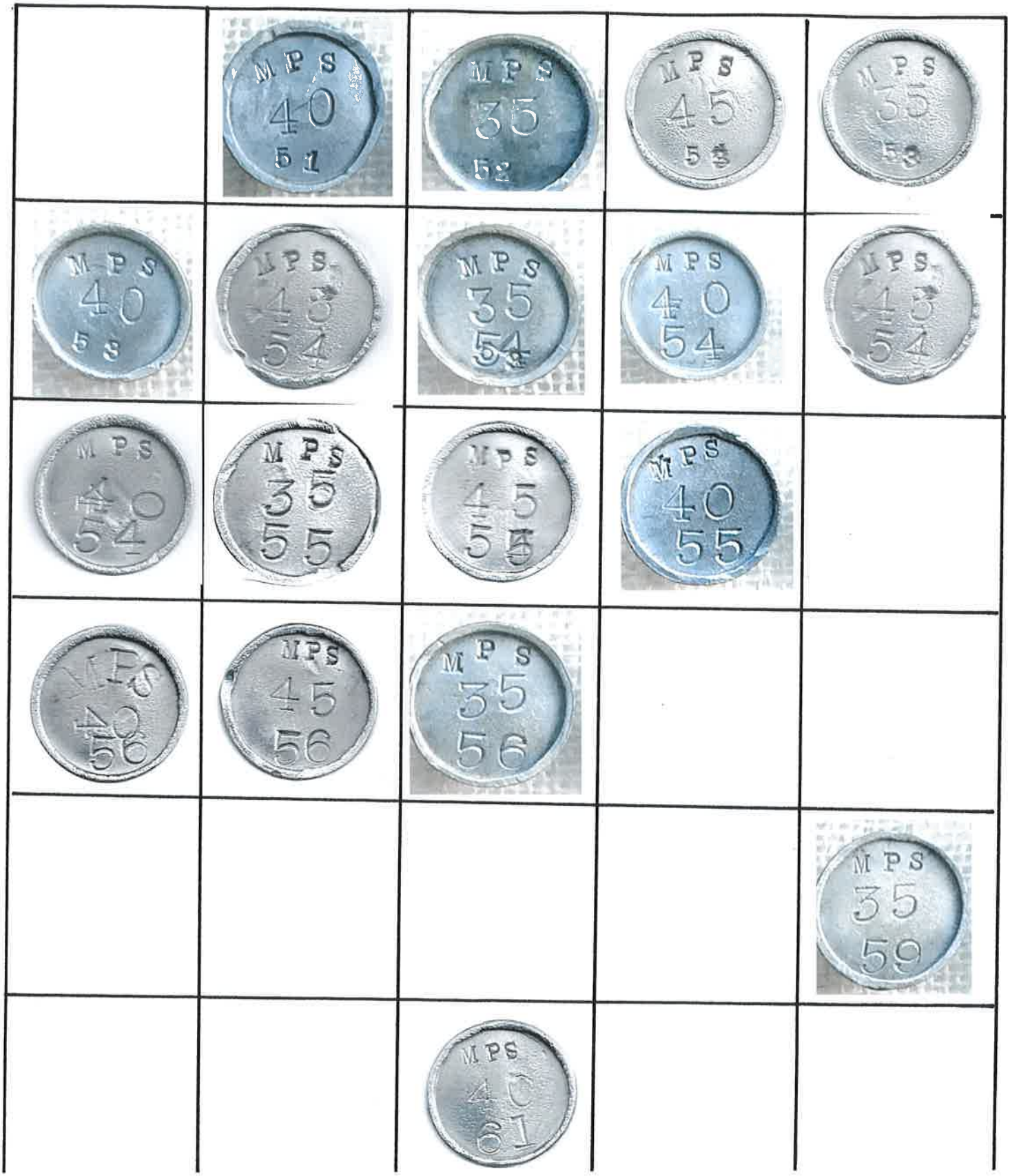
Large Aluminum Hubbard's (cont'd.)

451	452	453	454	455
456	457	458	459	460
461	462	463	464	465
466	467	468	469	470
471	472	473	474	475
476	477	478	479	480

Large Aluminum Hubbard's – Numbers & Lumens

Missouri Public Service

These nails are all hand stamped and are found in Sedalia and Central and Western Missouri



New London (CT) – Hand Stamped 1 1/4"

Small Aluminum (1") Index

511. Atlantic Creosote
512. .....
513. .....
514. ACCo 38 (Unknown user)
515. .....
516. Appalachian Electric Power (VA and WVA) (SEE SET)
517. .....
518. AFF 1964 Factory Sample
519. .....
520. Alton Light & Power. Alton (IL)
521. Alton Light & Power. Alton (IL)
522. Atlantic Municipal Light & Power. Atlantic (IA)
523. Atlantic Municipal Light & Power. Atlantic (IA)
524. .....
525. .....
526. .....
527. B Factory Sample
528. B Buffalo (MN)
529. B Buffalo (MN)
530. 1955 BAR. User unknown. Nail has been driven. Probably not a true factory sample.
531. BTC. Barbados Telephone Co.
532. .....
533. City of Brigham City (UT)
534. .....
535. Bay Cities (MI) Hand Stamped
536. .....
537. Bettendorf Light & Power Co. (IA)
538. .....
539. Bettendorf Light & Power Co. (IA)
540, ...
541. .....
542. Black Hills Power & Light. Rapid City (SD)
543. Black Hills Power & Light. Rapid City (SD)
544. Black Hills Power & Light. Rapid City (SD)
545. Black Hills Power & Light. Rapid City (SD)
546. Black Hills Power & Light. Rapid City (SD)
547. .....
548. BPUD (Unknown user)
549. Board of Public Works. Grand Haven/Holland (MI) (SEE SET)
550. C. Pennsylvania Railroad

Small Aluminum (1") Index (cont'd.)

551. .....
552. C&W (User unknown)
553. .....
554. Central Railroad of New Jersey – Cable under tie.
555. Central Railroad of New Jersey – Cable under tie. This nail is cast and not wire
556. Central Railroad of New Jersey – Cable under tie.
557. .....
558. City Electric Division. Knoxville (TN)
559. .....
560. Cedar Wood. Durango (CO)
561. .....
562. Clifton Forge W. Tel, Co. (VA)
563. .....
564. City. Ft. Collins (CO) and elsewhere.
565. .....
566. .....
567. CITY 19 FT. Niles (MI) and elsewhere
568. CITY 19 FT. Niles (MI) and elsewhere
569. .....
570. .....
571. .....
572. CITY. Grand Island (NB) and elsewhere
573. CITY. Grand Island (NB) and elsewhere
574. CITY. Grand Island (NB) and elsewhere
575. .....
576. CITY. (User unknown)
577. .....
578. CITY 36. Allegan (MI)
579. .....
580. CITY (HS) (User unknown)
581. CITY (HS) (User unknown)
582, CITY (HS) (User unknown)
583. .....
584. .....
585. .....
586. City of Ames (IA)
587. City of Ames (IA)
588. .....
589. City of Beloit (KS)
590. City of Crete (NB)

Small Aluminum (1") Index (cont'd.)

591. .....
592. City of Dover (OH)
593. .....
594. City of Gunnison (CO)
595. City of Guntersville Electric Dept. (AL)
596. City of Hastings 19. (NB)
597. .....
598. City of Kirkwood (MO)
599. .....
600. City of Lex. Lexington (NB)
601. .....
602. City of La Grange (GA)
603. .....
604. City Light & Power. Fredericktown (MO)
605. City Light & Power. Fredericktown (MO)
606. City of Monet (MO)
607. City of Mulvane (KS)
608. .....
609. City of Paris (KY)
610. .....
611. City of Wayne (State unknown)
612. City of High Point (NC)
613. City of Kimball (NB)
614. .....
615. CLD. (Cameron Light Dept?) Cameron (MO)
616. CLD. (Cameron Light Dept?) Cameron (MO)
617. CLD. (Cameron Light Dept?) Cameron (MO)
618. .....
619. CLD. (Cameron Light Dept?) Cameron (MO)
620. .....
621. Consumer Public Power District. (NB)
622. Consumer Public Power District. (NB)
623. Consumer Public Power District. (NB)
624. Consumer Public Power District. (NB)
625. Consumer Public Power District. (NB)
626. Consumers Power. (Need Location) (SEE SET)
627. .....
628. CPCo 1951 PENTA (PA)
629. Community Public Service Co. (TX & NM)
630. Community Public Service Co. (TX & NM)

Small Aluminum (1") Index (cont'd.)

631. .....
632. C.S. (Unknown user)
633. .....
634. Central States Power & Light Co. (IA & MN)
635. Central States Power & Light Co. (IA & MN)
636. Central States Power & Light Co. (IA & MN)
637. Central States Power & Light Co. (IA & MN)
638. Central States Power & Light Co. (IA & MN)
639. .....
640. City of Trinidad (CO)
641. City of Trinidad (CO)
642. City of Trinidad (CO)
643. .....
644. City of Trinidad (CO)
645. .....
646. City Utilities of Springfield (MO) (SEE SET)
647. Private Customer Pole. PG&E (No. CA) Red Anodized Aluminum Nail
648. .....
649. Carthage Water & Electric Power. (MO) (SEE SET)
650. CWPS Co. (User and location unknown)
651. .....
652. Dakota Central Telephone Co. (SD)
653. Detroit Edison. (MI) Large set. (SEE SET)
654. .....
655. Department of Electricity. Clarksville (TN)
656. Duquesne Light Co. (PA) (SEE SET)
657. .....
658. Durham Public Service (NC) (SEE SET)
659. Dodge Utility. Dodge County. Fremont (NB)
660. Dodge Utility. Dodge County. Fremont (NB)
661, Dodge Utility. Dodge County. Fremont (NB)
662. Dodge Utility. Dodge County. Fremont (NB)
663. .....
664. Dodge Utility. Dodge County. Fremont (NB)
665. .....
666. .....
667. Eco. (Unknown user and location)
668. .....
669. Thomas A. Edison Commemorative (User and location unknown)
670. EES. Elizabethtown (TN) Hand Stamped numbers between 58-66)

Small Aluminum (1") Index (cont'd.)

671. .....
672. EES. Elizabethton (TN) Hand Stamped numbers between 58-66) (SEE SET)
673. Erwin Utilities. Erwin (TN) (SEE SET)
674. E. St. Louis Railway Co. (IL)
675. E. St. Louis Railway Co. (IL)
676. .....
677. F. Factory Sample
678. Fire. Detroit (MI)
679. Fire Dept. Oklahoma City (OK)
680. 35 FT. Southwestern Vermont
681. Ft. Madison Electric. Ft. Madison (IA)
682. Franklin County Pasco Utility District (WA) (SEE SET)
683. Forest Service. George Washington Nat'l. Forest. (VA/WVA/KY)
684. .....
685. Greenfield Power & Light. (Need location)
686. .....
687. Gulf States Telephone **Found in E. rural TX (Scott Weed)**
688. Gulf States Telephone
689. .....
690. General Telephone Co. (**E. rural TX** 1) (SEE SET)
691. .....
692. .....
693. H. Factory Sample
694. .....
695. Hamilton County Telephone (NB)
696. Home Light & Power. Greely (CO) (SEE SET)
697. H.L.& W.P. (Unknown user or location)
698. .....
699. Highland Telephone Co. Monroe (NY) (SEE SET)
700. Indiana General Service Co. (SEE SET)
701. Iowa/Nebraska Light & Power Co.
702. Iowa/Nebraska Light & Power Co.
703. Iowa/Nebraska Light & Power Co.
704. Iowa/Nebraska Light & Power Co.
705. .....
706. INSP 28. (Unknown user or location)
707. .....
708. Interstate Power Co. (MN/IA/IL/NB)
709. Interstate Power Co. (MN/IA/IL/NB)
710. .....

Small Aluminum (1") Index (cont'd.)

711. Iowa Power & Light or possibly Interstate Power & Light?
712. Iowa Power & Light or possibly Interstate Power & Light?
713. Iowa Power & Light or possibly Interstate Power & Light?
714. .....
715. Iowa Power & Light or possibly Interstate Power & Light?
716. Iowa Public Service Co.
717. Iowa Southern Utilies. (SEE SET)
718. Interstate Telephone & Telegraph Co. Durham (NC)
719. .....
720. Iowa Union Electric. Ft. Madison (IA)
721. .....
722. J. Factory Sample
723. J. Grand Haven (MI)
724. .....
725. Johnson City Power Board. (TN) (SEE SET)
726. Jackson Electric Dept. Jackson (TN)
727. .....
728. Joint. Lowville (NY)
729. Joint. (Central NY and No, PA)
730. .....
731. .....
732. K. Factory Sample
733. .....
734. Keokuk Electric. Keokuk IA)
735. Knoxville Electric Power & Water Board. (TN)
736. .....
737. Kentucky Utilities. Bottom two letters are town abbreviations)
738. Kentucky Utilities. Bottom two letters are town abbreviations.
739. Kentucky Utilities. Bottom two letters are town abbreviations.
740. .....
741. Kentucky Power Co.
742. .....
743. No. Kentucky & West Virginia Power Co. 1934
744. LaCrosse Telephone Corp. (WI) (SEE SET)
745. Lodge Pole Pine. Wood
746. .....
747. .....
748. M. Factory Sample
749. M. Probably a factory sample.
750. Marietta Board of Lights & Water. (GA)

Small Aluminum (1") Index (cont'd.)

751. .....
752. Montana/Dakota Uilities. (SEE SET)
753. Maui Electric (46 hand stamped) (HI)
754. .....
755. MG&E. (Unknown user)
756. MG&E. (Unknown user)
757. .....
758. Missouri Edison Co.
759. .....
760. Municipal Light & Power. No. Platte (NB) / Muscatine Light & Power (IA)
761. Municipal Light & Power. No. Platte (NB) / Muscatine Light & Power (IA)
762. Municipal Light & Power. No. Platte (NB) / Muscatine Light & Power (IA)
763. Municipal Light & Power. No. Platte (NB) / Muscatine Light & Power (IA)
764. .....
765. Missouri Electric Power Co. So. Central (MO)
766. Missouri Electric Power Co. So. Central (MO)
767. Missouri Electric Power Co. So. Central (MO)
768. .....
769. Morristown Power System. (TN)
770. .....
771. Minnesota Power & Light. (MN)
772. Minnesota Power & Light. (MN)
773. Minnesota Power & Light. (MN)
774. .....
775. Mississippi Power & Light Co. (MS)
776. Mississippi Service Co. (MS)
777. Municipal Public Utilities. Owatonna (MN)
778. Missouri Valley Power Co. Ft. Smith (AR)
779. Missouri Valley Power Co. Ft. Smith (AR) – The 0 in the 1930 is hand stamped.
780. Missouri Valley Power Co. Ft. Smith (AR)
781. .....
782. Nebraska City Utilities. Nebraska City (NB)
783. .....
784. .....
785. Nebraska Light & Power Co. McCook (NB)
786. Nebraska Light & Power Co. McCook (NB)
787. .....
788. No. Kentucky & West Virginia Power Co.
789. North State Telephone Co, High Point (NC)
790. North State Telephone Co. High Point (NC)

Small Aluminum (1") Index (cont'd.)

791. .....
792. Northwestern Public Service. (SD) (SEE SET)
793. .....
794. Old Dominion Power. Western (VA)
795. Oklahoma Gas & Electric Co. (OK) - Note: Both the small and large numbers exist from 25 thru 70 except the second 25 is not as large and the large 55 and 70 have not been reported. (SEE SET)
796. .....
797. Ohio Power Co. (OH)
798. .....
799. Oak Ridge City (TN) (SEE SET)
800. Orlando Utility Co. Orlando (FL) (SEE SET)
801. P. Factory Sample
802. .....
803. Pittsburgh & Ohio Valley Railroad. Pittsburgh (PA)
804. Pittsburgh & Ohio Valley Railroad. Pittsburgh (PA)
805. Pittsburgh & Ohio Valley Railroad. Pittsburgh (PA)
806. .....
807. Paw Paw (MI)
808. Paw Paw (MI)
809. Paw Paw (MI)
810. .....
811. Pennsylvania Electric Co. (PA) (SEE SET)
812. .....
813. Pennsylvania Central Light & Power. (PA)
814. Pennsylvania Central Light & Power. (PA)
815. .....
816. Pennsylvania Edison Co. (PA)
817. Pennsylvania Edison Co. (PA)
818. .....
819. Polar Telephone. St. Thomas (ND)
820. .....
821. PP&L. (Unknown user)
822. PP&L. (Unknown user)
823. .....
824. Private. Detroit (MI)
825. Private. Detroit (MI)
826. Private. Detroit (MI)
827. .....
828. Pottstown, Reading & Philadelphia Telephone Co. (PA)

Small Aluminum (1") Index (cont'd.)

829. .....
830. Puerto Rico Water Resources Authority. Puerto Rico
831. Puerto Rico Water Resources Authority. Puerto Rico
832. .....
833. PSC. (User unknown) Numbers are hand stamped
834. PSC. (User unknown) Numbers are hand stamped
835. .....
836. .....
837. Pasco Utility District. (Not WA - May be FL?)
838. Pasco Utility District. (Not WA - May be FL?)
839. .....
840. Platte Valley Public Power District. (NB)
841. R. Factory Sample.
842. .....
843. Rockland Electric. (NY)
844. .....
845. Red Spruce. Wood
846. .....
847. Sevier County Electric Service. (TN)
848. .....
849. Sevier County Electric Service. (TN)
850. .....
851. Southern Colorado Power Co. (CO)
852. Southern Colorado Power Co. (CO)
853. .....
854. Salk Center Water & Light. (MN)
855. Savannah Electric & Power Co. (GA) (SEE SET)
856. Southeastern Colorado Power Association. (CO) (SEE SET)
857. .....
858. Southeast Missouri Telephone Co. Cape Girardeau (MO)
859. Southeast Missouri Telephone Co. Cape Girardeau (MO)
860. .....
861. Springfield Gas & Electric. Springfield (MO) (SEE SET)
862. S.P.S. CO. (Unknown User or location)
863. .....
864. Sidney Public Utility Co. Sidney (NB)
865. .....
866. South Sioux City. (NB)
867. South Sioux City. (NB)
868. South Sioux City. (NB)

Small Aluminum (1") Index (cont'd.)

869. .....
870. SWCCo 38. (OK) (User unknown)
871. .....
872. SWLP. (User and location unknown) (SEE SET)
873. S. W. TEL. CO. (User and location unknown)
874. .....
875. T, Northern (TX)
876. Tampa Electric Co. Tampa (FL) (SEE SET)
877. .....
878. Tennessee Public Service Co. Knoxville (TN)
879. Tennessee Public Service Co. Knoxville (TN)
880. Tennessee Public Service Co. Knoxville (TN)
881. Tennessee Public Service Co. Knoxville (TN)
882. .....,
883. U.E. co. (User and location unknown)
884. Union Electric Co. St. Louis (IL) (SEE SET)
885. .....
886. U.E. Of MO. (User and location unknown – poss. Union Elect. Of Missouri?)
887. .....
888. Union Electric Power Company. (MO) (SEE SET)
889. U.S. Fort Sam Houston (TX)
890. Virginia Public Service. (VA)
891. West Arkansas Telephone Co. 1959 (AR)
892. West Arkansas Telephone
893. W/C. (Unknown user or location)
894. West Arkansas Telephone (Hand stamped) (AR)
895. White Spruce. Wood.
896. W.L.B. (Unknown user or location)
897. West Arkansas Telephone Co. 60. (AR) (Hand stamped)
898. West Missouri Power Company. (MO)
899. West Missouri Power Company. (MO)
900. .....
901. .....
902. W.P.S. CO. (Unknown user or location)
903. .....
904. .....
905. W.T. CO. (User unknown) (WI)
906. WTP&L CO. (User unknown) Jackson (TN)
907. WTP&L CO. (User unknown) Jackson (TN)
908. WTP&L CO. (User unknown) Jackson (TN)

Small Aluminum (1") Index (cont'd.)

909. .....
910. .....
911. .....
912. X. Pennsylvania Railroad. Inferior Tie. Altoona (PA)
913. .....
914. .....
915. Yount Lee Oil Company. (TX)

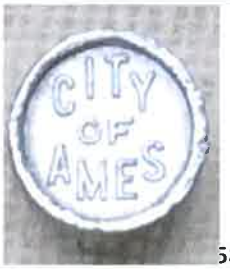
Small Aluminum - 1”

511	512	513	514	515
APPALACHIAN ELECT POWER (VA & WVA) (SEE SET) 516	517	518	519	520
521	522	523	524	525
526	527	528	529	530
531	532	533	534	535
536	537	538	539	540

Small Aluminum - 1" (cont'd.)

541	542	543	544	545
546	547	548	BOARD OF PUB WKS. GRAND HAVEN / HOLLAND (MI) (SEE SET) 549	550
551	552	553	554	555
556	(CCE (SAMPLE) 557	558	559	560
561	562	563	564	565
566	567	568	569	570

Small Aluminum - 1" (cont'd.)

571	572	573	574	575
576	577	578	579	580
581	582	583	584	585
 586	587	588	589	590
591	592	593	594	595
596	597	598	599	600

Small Aluminum – 1" (cont'd.)

601	602	603	604	605
606	607	608	609	610
611	612	613	614	615
616	617	618	619	620
621	622	623	624	625
CONSUMERS POWER (SEE SET) 626	627	628	629	630

Small Aluminum - 1" (cont'd.)

631	632	633	634	635
636	637	638	639	640
641	642	643	644	645
CITY UTILITIES OF SPRINGFIELD (MO) (SEE SET) 646	647	648	CARTHAGE WATER & ELECT. PWR. (MO) (SEE SET) 649	650
651	652	DETROIT EDISON (LARGE SET – MI) (SEE SET) 653	654	655
DUQUESNE LIGHT CO (PA) (SEE SET) 656	657	DURHAM PUBLIC SERVICE (NC) (SEE SET) 658	659	660

Small Aluminum - 1" (cont'd.)

661

662

663

664

665

666

667

668

669

670

671

ELIZABETHTOWN
(TN)
(SEE SET)
672

ERWIN UTILITIES
ERWIN (TN)
(SEE SET)
673

674

675

676

677

678

679

680

681

FRANKLIN COUNTY
PASCO UTILITY DIST.
PASCO (WA)
(SEE SET)
682

683

684

685

686

687

688

689

GENERAL TELEPHONE
CO.
(SEE SET)
Found in E. rural TX
690

Small Aluminum - 1" (cont'd.)

691	692	693	694	695
HOME LIGHT & POWER CO. GREELY (CO) (SEE SET) 696	697	698	HIGHLAND TEL. CO. MONROE (NY) (SEE SET) 699	INDIANA GENERAL SERVICE CO. (SEE SET) 700
701	702	703	704	705
706	707	708	709	710
711	712	713	714	715
716	IOWA SOUTHERN UTILITIES (SEE SET) 717	718	719	720

Small Aluminum - 1" (cont'd.)

721

722

723

724

JOHNSON CITY
POWER BOARD
(TN)
(SEE SET)
725

726

727

728

729

730

731

732

733

734

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737

738

739

740

741

742

743

LaCrosse Tel.
Corp. (WI)
(SEE SET)
744

745

746

747

748

749

750

Small Aluminum - 1" (cont'd.)

751	MONTANA/DAKOTA UTILITIES (SEE SET) 752	753	754	755
756	757	758	759	760
761	762	763	764	765
766	767	768	769	770
771	772	773	774	775
776	777	778	779	780

Small Aluminum - 1" (cont'd.)

781	782	783	784	785
786	787	788	789	790
791	NORTHWEST PUBLIC SVC. (ND) (SEE SET) 792	793	794	OKLAHOMA GAS & ELECTRIC CO. (SEE SET) 795
796	797	798	OAK RIDGE CITY (TN) (SEE SET) 799	ORLANDO UTILITY CO. (FL) (SEE SET) 800
801	802	803	804	805
806	807	308	809	810

Small Aluminum - 1" (cont'd.)

PENNSYLVANIA ELECTRIC CO. (SEE SET) 811

812

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840

836

Small Aluminum - 1" (cont'd.)

841

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854

SAVANNAH ELECT.
& POWER CO. (GA)
(SEE SET)
855

SOUTHEASTERN COLO.
POWER ASSN (CO)
(SEE SET)
856

857

858

859

860

SPRINGFIELD GAS
& ELECT. (MO)
(SEE SET)
861

862

863

864

865

866

867

868

869

870

Small aluminum - 1" (cont'd.)

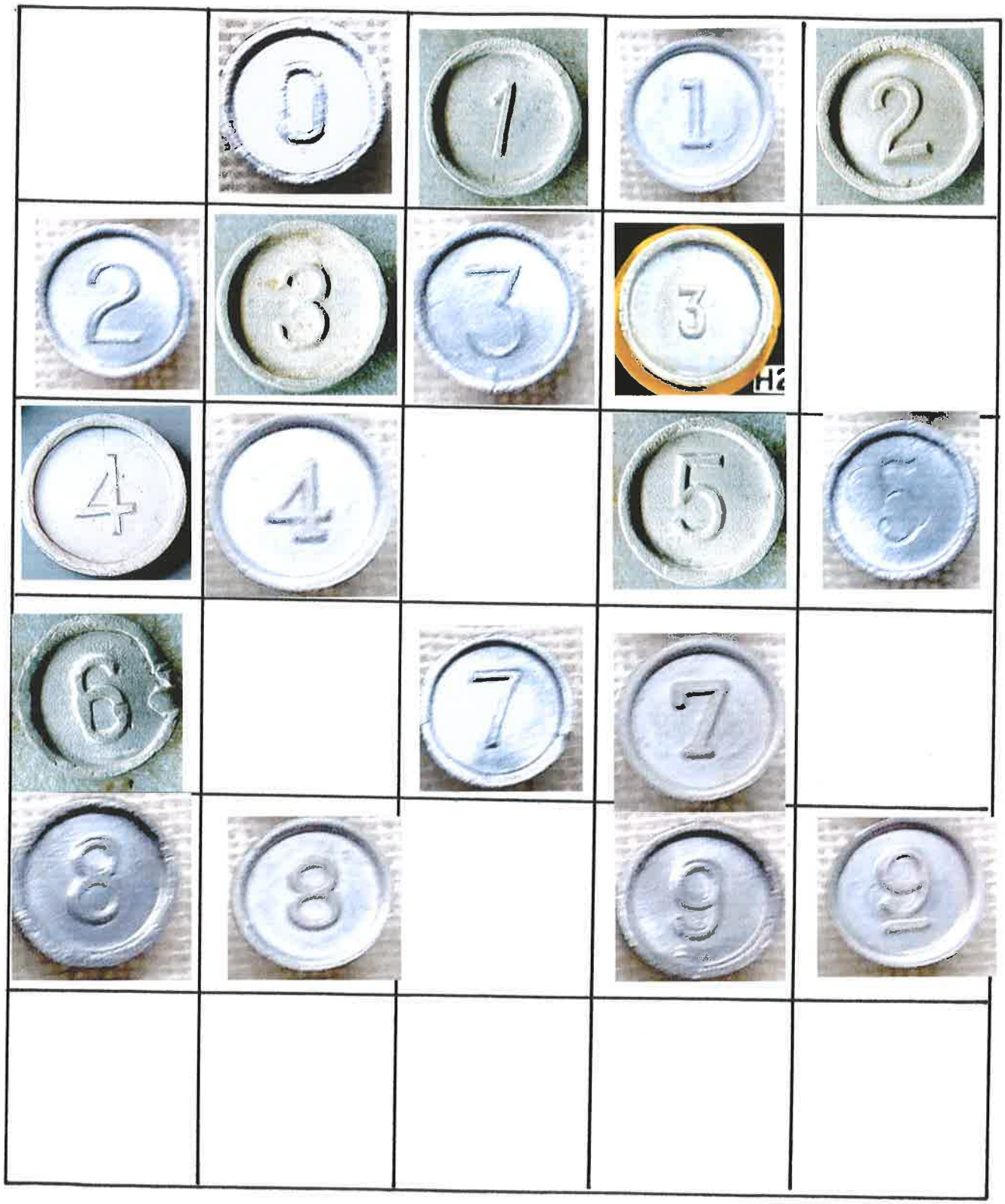
871	S.W.L.P. (SEE SET) 872	873	874	875
TAMPA ELECT CO. (FL) (SEE SET) 876	877	878	879	880
881	882	883	UNION ELECTRIC CO. - ST. LOUIS (IL) (SEE SET) 884	885
886	887	UNION ELECT. POWER CO (MO) (SEE SET) 888	889	890
891	892	893	894	895
896	897	898	899	900

Small aluminum - 1" (cont'd.)

901	902	903	WS TEL 904	905
906	907	908	909	910
911	912	913	914	915
916	917	918	919	920
921	922	923	924	925
926	927	928	929	930

Small Aluminum Numbers 1" (0–9)

The first of each number pictured was used in Westfield, MA to number poles from a junction. Two nails were used to indicate 10, 11 etc. The second nail of each shown are factory samples. The third 3 is unknown user and the second 5 is indented.



Small Aluminum Numbers 1" (10–100)

These include numbers used for dates, heights and amperes. Nails with more than one set of numbers (date/height/class and etc.) can be seen in the Detroit Edison set pages.

1969–1987 were used by the Duquesne Light Co. of Pittsburgh, PA – With the exception of the second 75 and the 75 Amperes.

Small Aluminum Numbers 1" (cont'd.)

Small Aluminum Dates & Lumens (1")

The 1935–1941 were used in Springfield, (MN) with the exception of the second 40 which is from poles along the BA&P railroad. Lumens show the size of the light bulb used on an international measuring scale.

The 1937 with pole height are from Detroit Edison Co.

Appalachian Electric Power Co. (1" Aluminum)

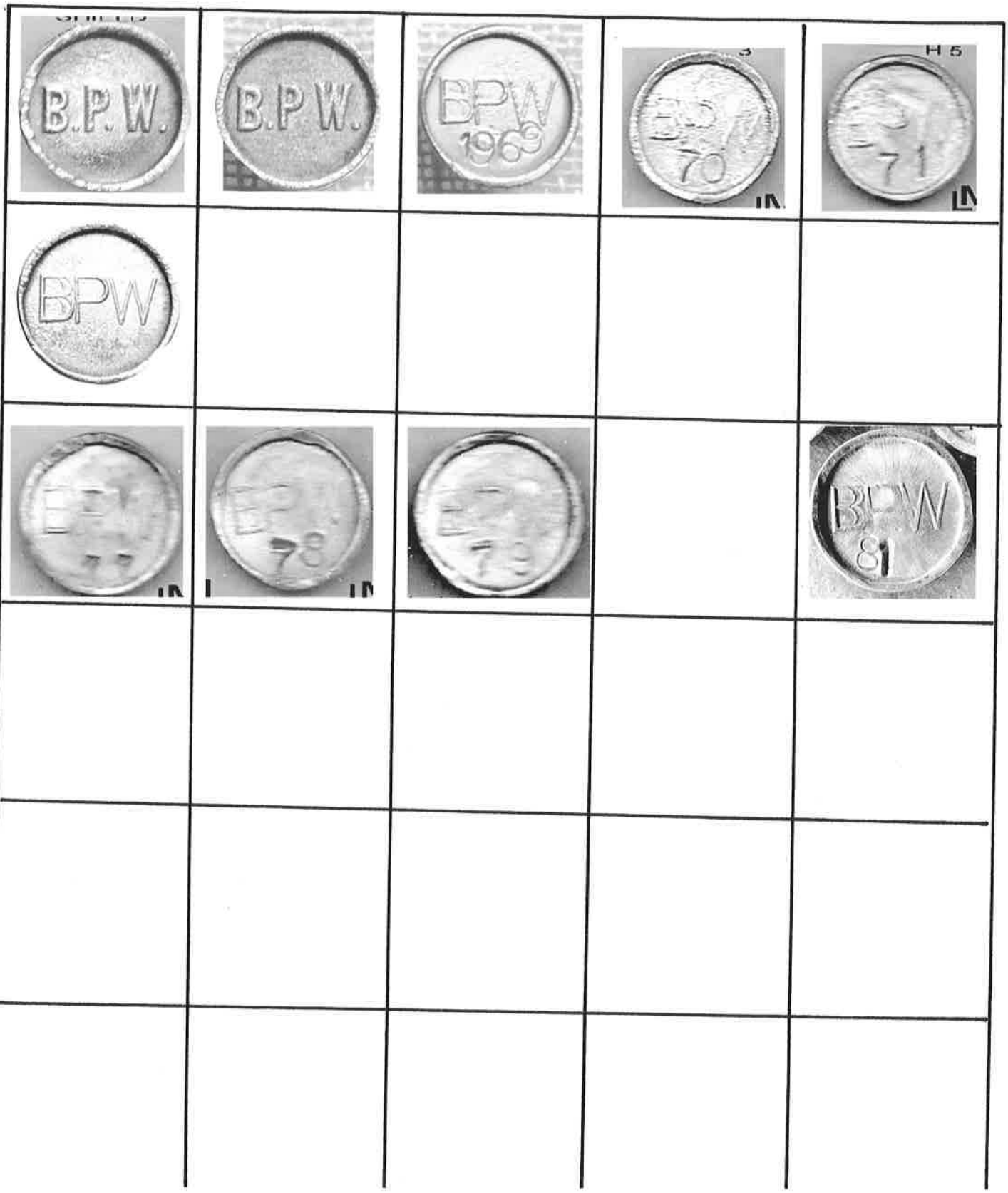
Serving Southern West Virginia and Western Virginia

Appalachian Electric Power Co. (1" Aluminum)

(Continued)

Board of Public Works (Grand Haven/Holland, MI)

Many various back stamps exist for this set of nails – In particular the first BPW shown. The nails with the large BPW lettering all seem to have an LM back stamp.



Consumers Power Co.

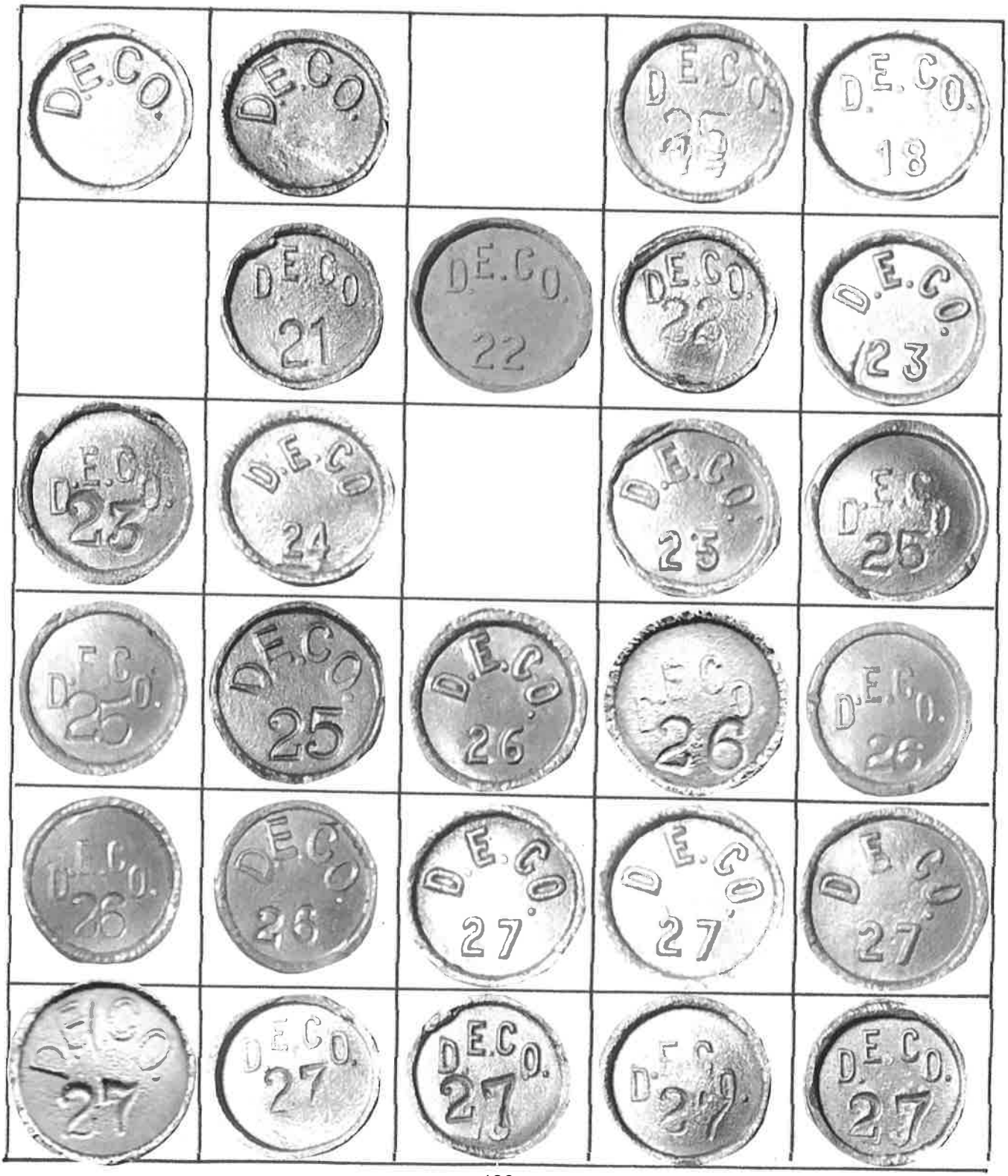
City Utilities of Springfield, MO

Carthage Water & Electric Power (MO)

Some of the photos supplied by the employees of CW&EP – with thanks.

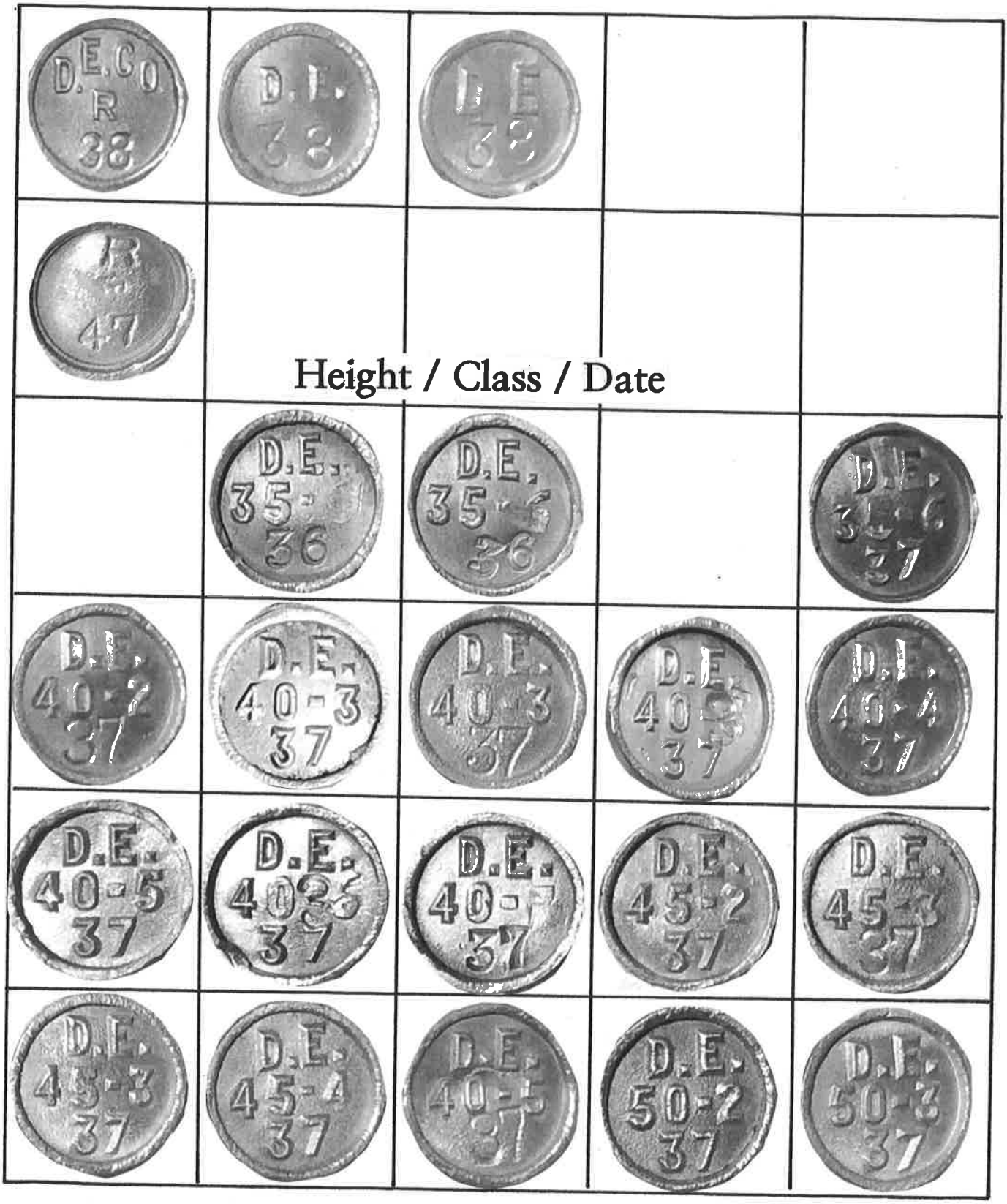
Detroit Edison Co. (MI)

There are many, many nails to this set. When only two numbers are shown it is usually the year. Numbers separated by a dash or over one another indicated pole height and pole size. Many of the missing dates and number combinations are hand stamped, and several varieties exist.



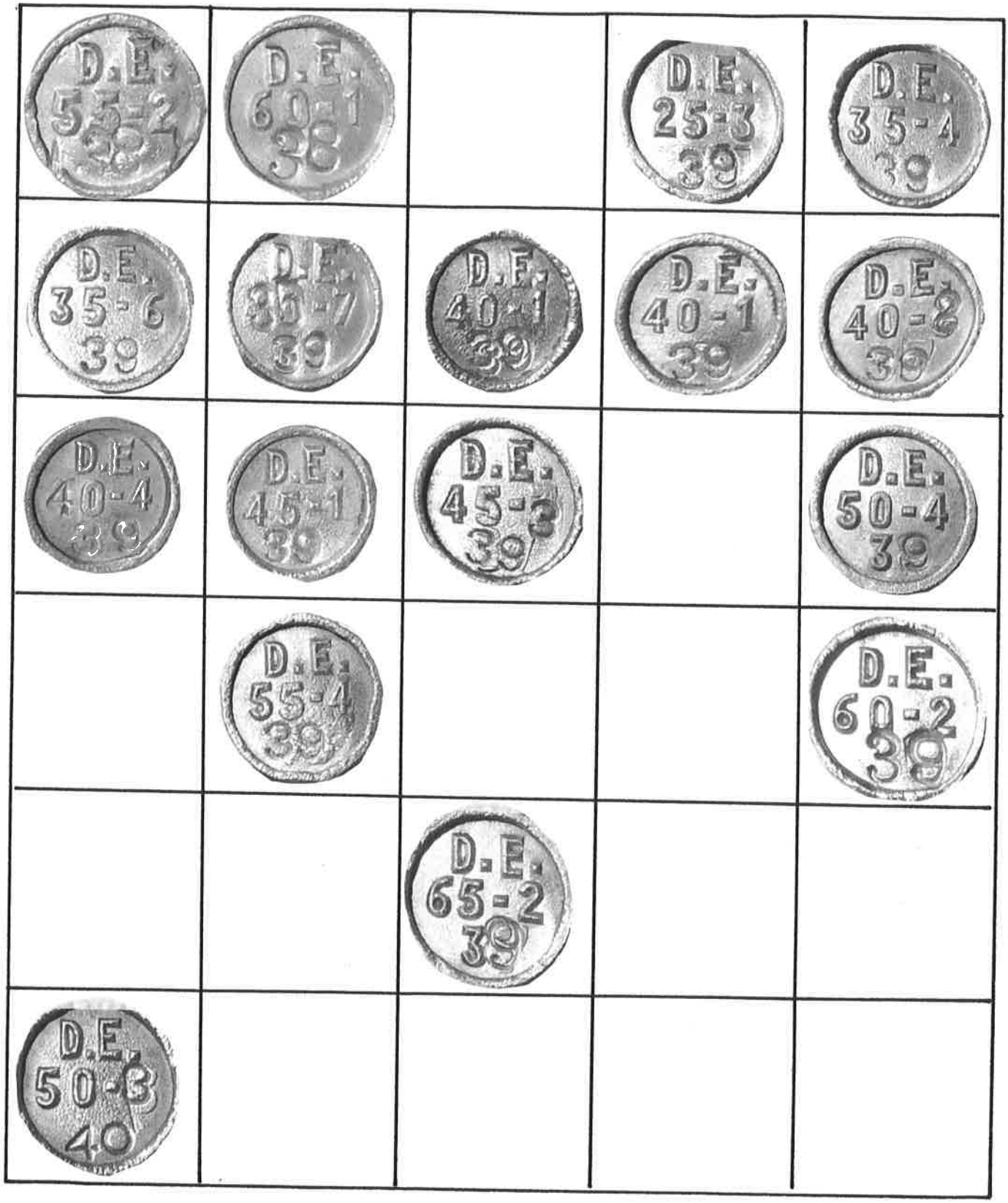
Detroit Edison Co. (MI) – (cont'd.)

Detroit Edison Co. (MI) – (cont'd.)



Detroit Edison Co. (MI) – (cont'd.)

Detroit Edison Co. (MI) – (cont'd.)



Height / Class (Number)

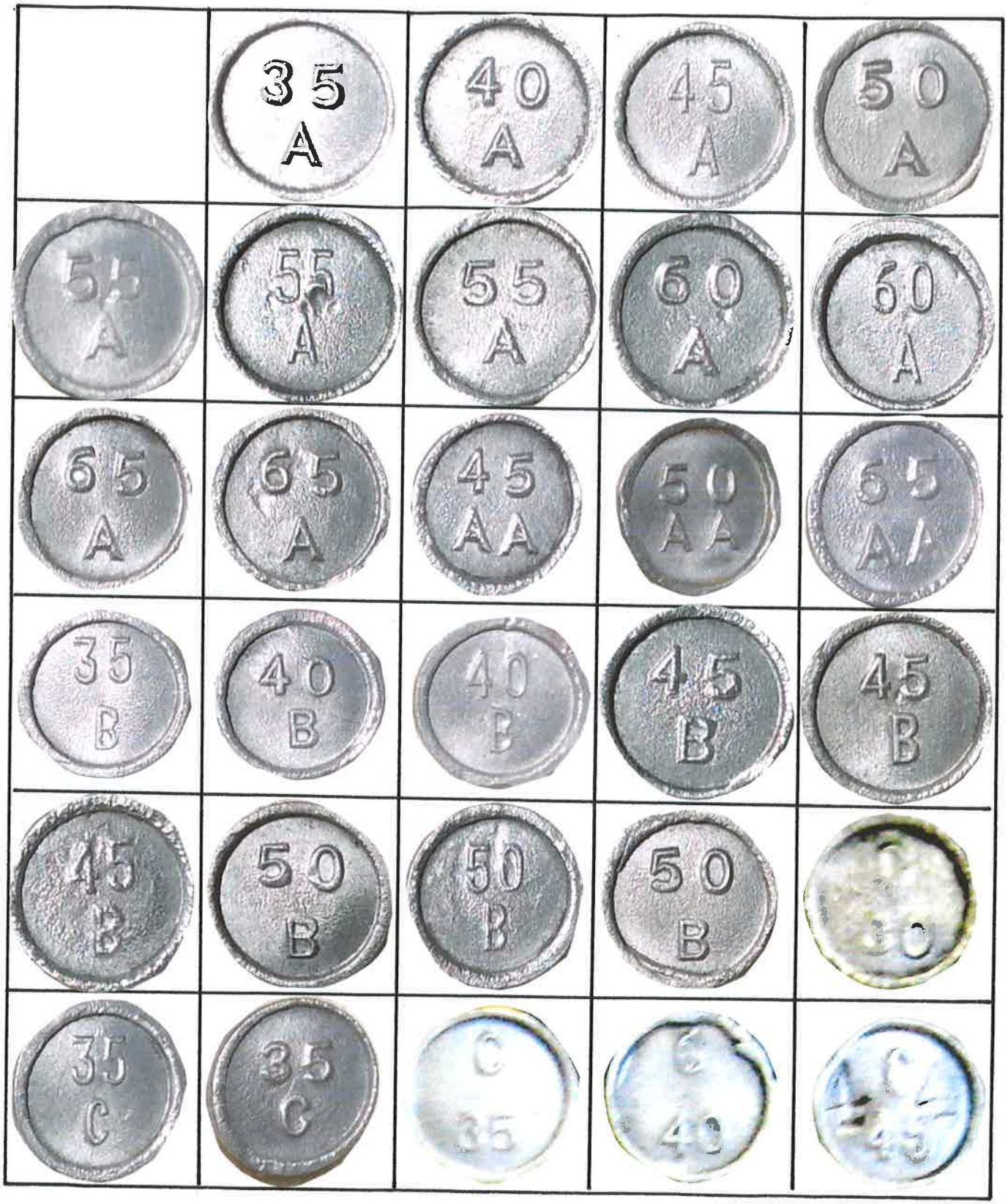
Detroit Edison Co. (MI) – (cont'd.)

Detroit Edison Co. (MI) – (cont'd.)

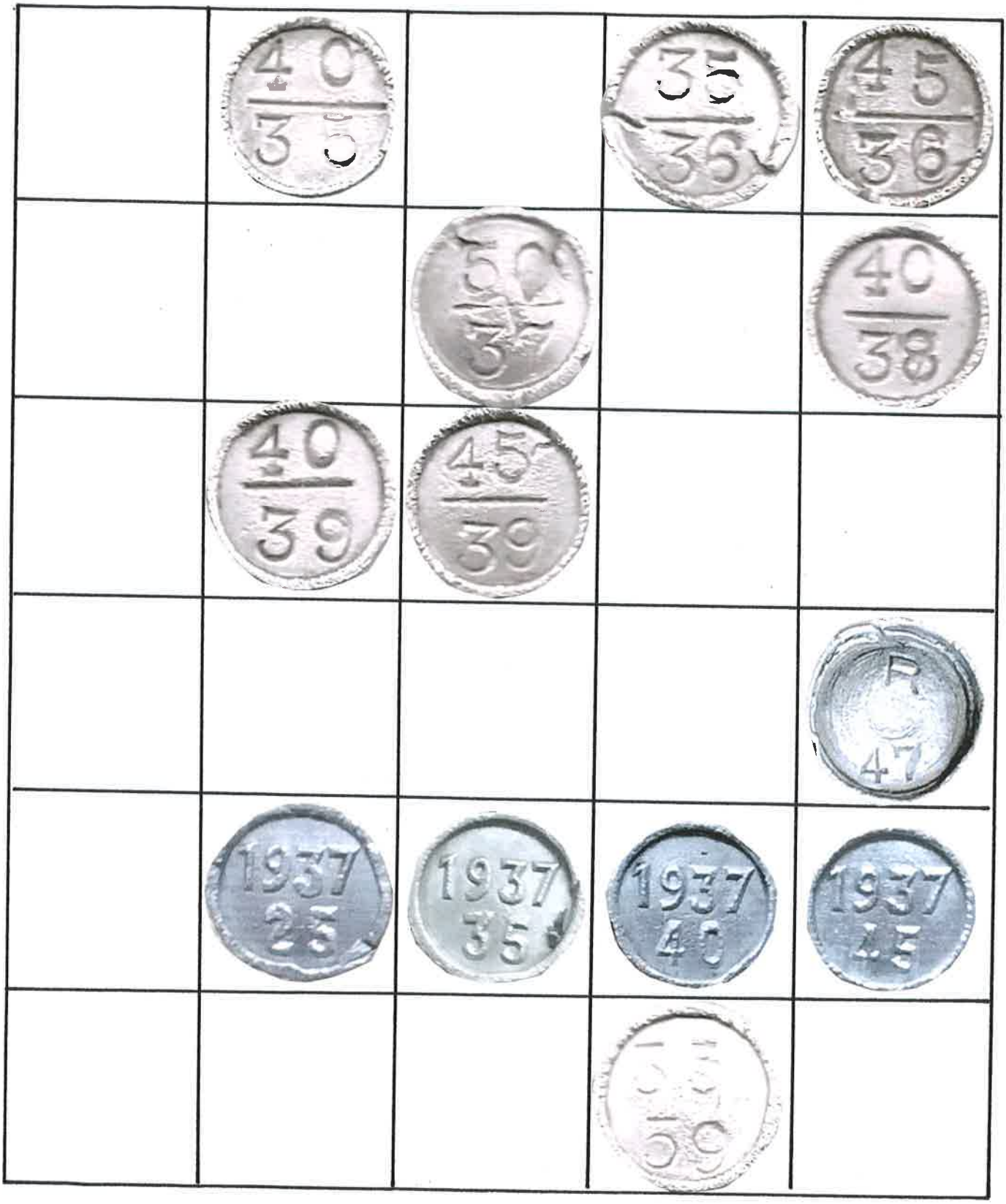
Detroit Edison Co. (MI) - (cont'd.)

Height / Class (Letter)

Detroit Edison Co. (MI) – (cont'd.)



Detroit Edison Co. (MI) (cont'd.)



Duquesne Light Co. – Pittsburgh, PA

These nails were all manufactured by Alcoa specifically for Duquesne Light Co. In a conversation with one of the people who made them, the equipment was scrapped when Alcoa stopped making these nails in 1987. They have a unique, almost pencil like point.

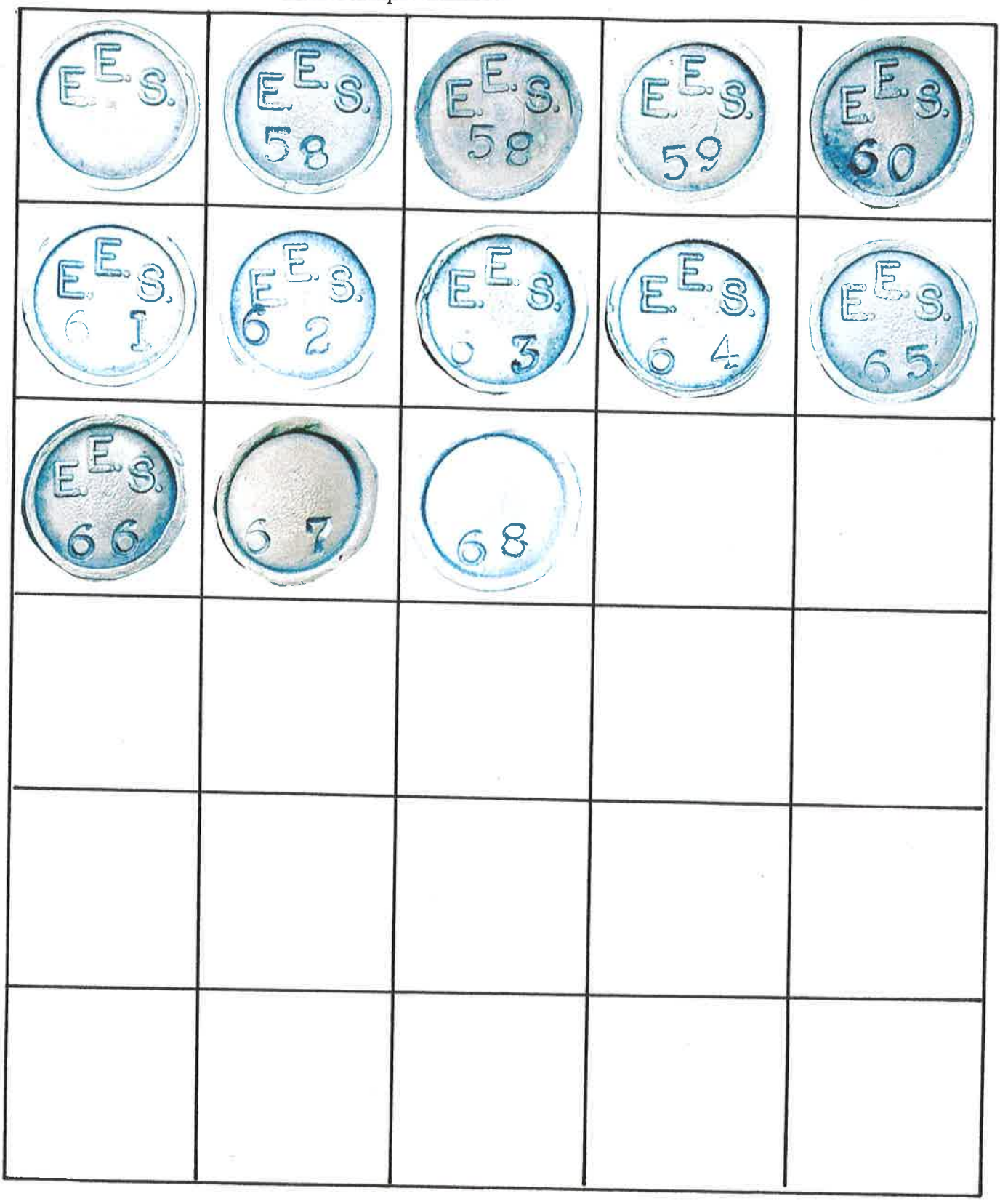
Durham Public Service (NC)

At least the 30, 33, 34 and 35 exist as hand stamped. The 193 was used with a hand stamped seven and the 1935 was found in Millaca, MN

DPS 193				

Elizabethton (TN) Electric Service

Hand Stamped numbers



Erwin Utilities – Erwin (TN)

Franklin County Pasco Utilitiy District
Pasco (WA)

General Telephone Co.

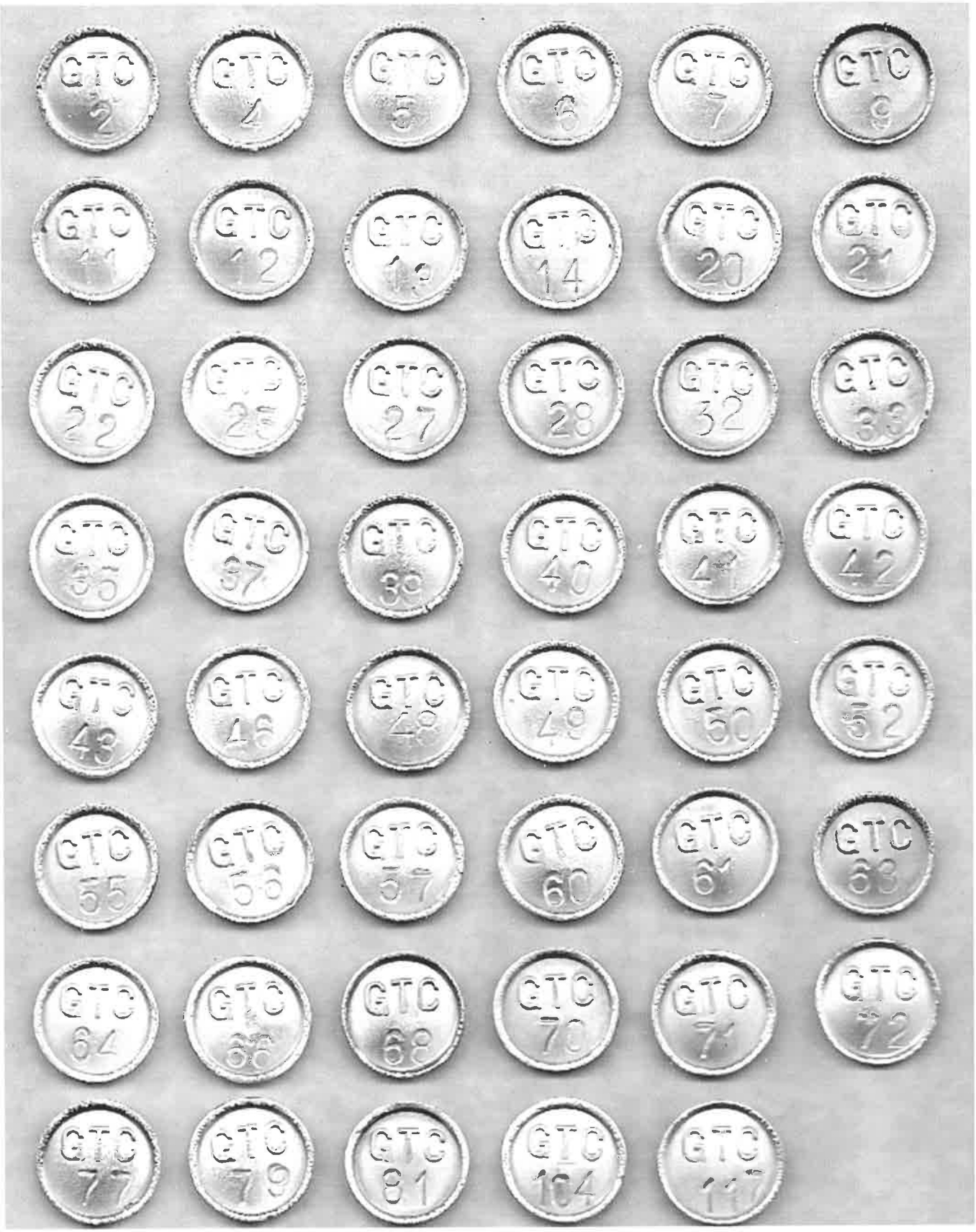
Many hand stamped numbers were used on the plain GTC, The 59-61 were factory stamped.

Found in E. rural TX (Scott Weed)

General Telephone Co. (cont'd.)

Photo: Courtesy of Skip Kilpatrick (TDNCA 1147).....Thanks Skip

E. rural TX



Home Light & Power Co. (Greeley, CO)

Highland Tel. Co. - Monroe (NY)

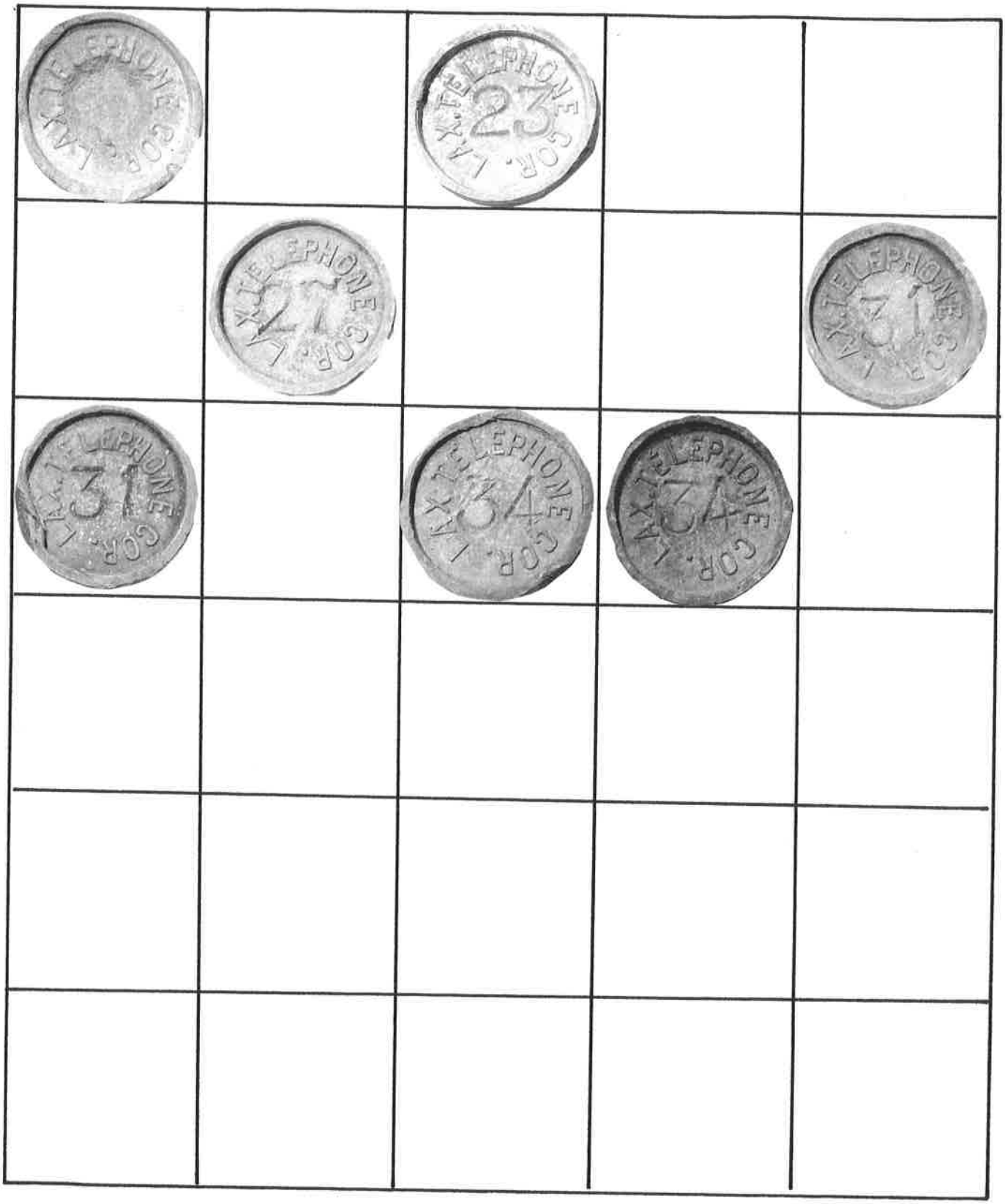
Indiana General Service Co.

Iowa Southern Utilities

Was headquartered in Centerville, IA and ceased to exist because of a merger in 1991

Johnson City Power Board (TN)

LaCrosse Telephone Corp. (WI)

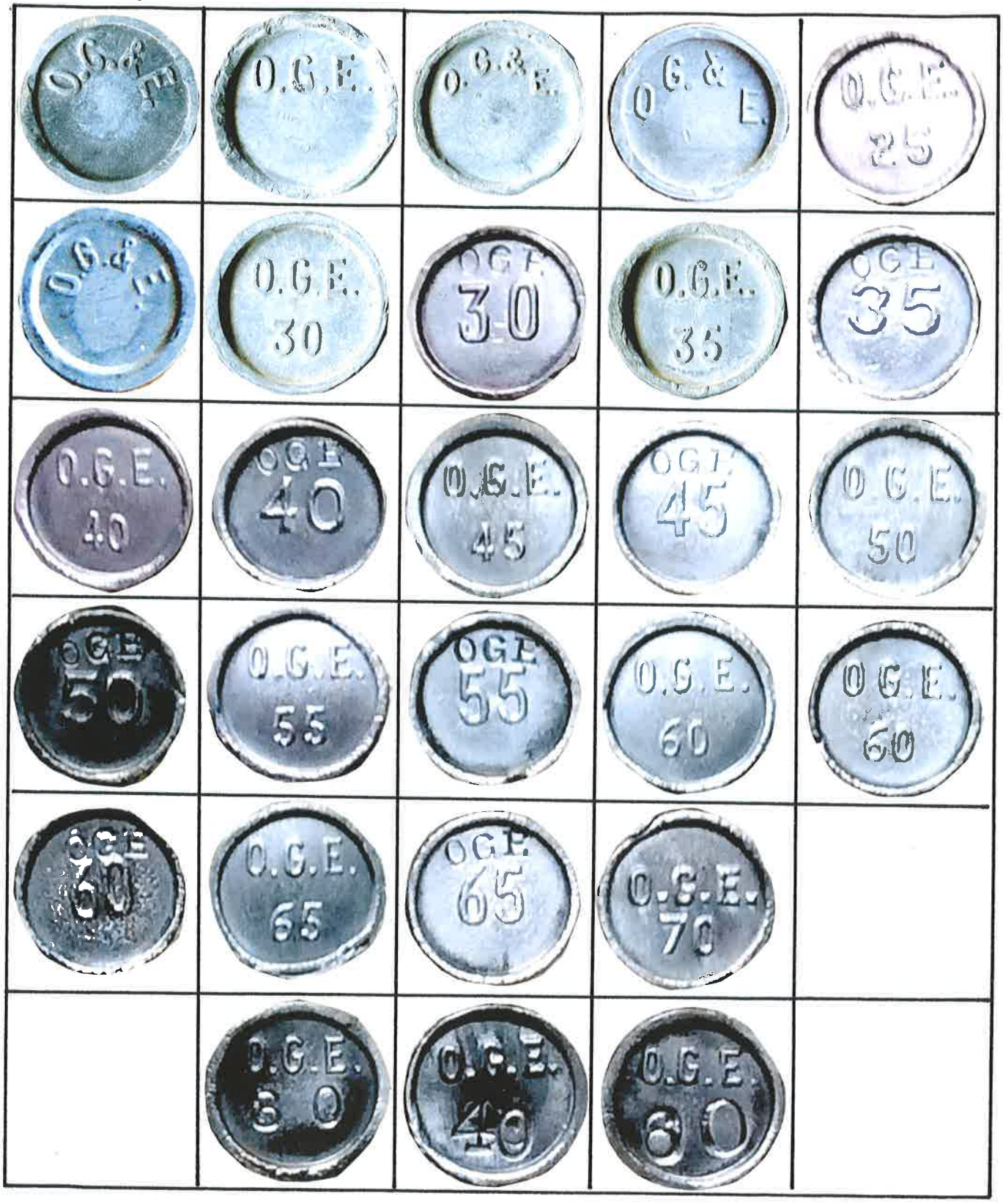


Montana-Dakota Utilities

Northwest Public Service (SD)

Oklahoma Gas & Electric Co.

Serving Oklahoma and Western Arkansas – Headquarters Oklahoma City



Oklahoma Gas & Electric Co. (continued)

Oak Ridge City (TN)

Orlando Utility Co. (FL)

Pennsylvania Electric Co. (PA)

There is no period after Elect. 3rd nail. Slight difference in position of letters on 1st and 2nd nails. In the 60's and 70's the year was shown by hand striking the last digit.

Savannah Electric & Power Co (GA)

(1" Aluminum Set)

Savannah Electric & Power Co. (GA)

(1" Aluminum Set – Continued)

Southeastern Colorado Power Association

Formed in 1937 and servicing parts of eleven counties in Southeastern Colorado.

Springfield (MO) Gas & Electric

S.W.L.P.

Tampa Electric Co. (FL)

Tampa Electric Co. (FL)

(Continued)

Tampa Electric Co. (FL)

(Continued – Nail scans added as received –not in order)

Tampa Electric Co. (FL)

(Continued – Nail scans added as received and not in order)

Union Electric Co. - St. Louis, (IL)

Union Electric Power Co. (St. Louis, MO)

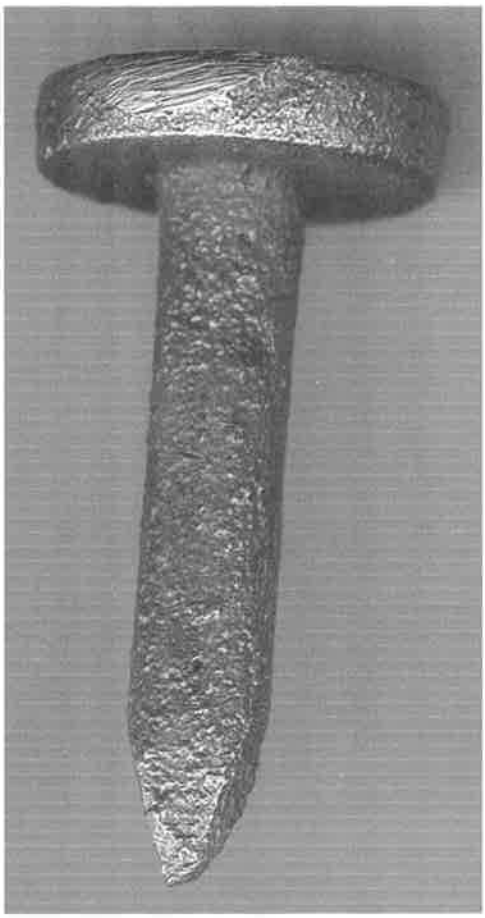
Cast Bronze Hubbard Nails

The cast bronze Hubbard nails were made for Utilities serving the Cincinnati, Ohio general area and began in 1934. They also include the number series with two sets known.
One with a 5/8" head and the other with a full 1" head.

The cast bronze nails were poured into molds, cooled, and when ready were taken out of the mold and actually ground by hand to eliminate the barbs and imperfections created at the entry point of pour. Almost all these cast bronze nails have polishing and grinding marks at the same exact point on their outer rim. This indicates the molds were all made with the same process. It is very time consuming to physically grind and polish each nail that is created. There are many unanswered questions as to why they were made –vs– the standard wire process used for the other Hubbard's. Also, why were they made for just this select group of Utilities in Southern Ohio?

Three of the four utilities that used these cast bronze nails began their series with the standard copper wire Hubbard nail. Why did these four utilities switch and no other utility outside Ohio? Lots of question whose answers may never be learned.

The four utilities, all related or a subsidiary, that used these cast bronze Hubbard nails are: Cincinnati Gas & Electric which was formerly Union Gas and Electric. Southwest Ohio Power Company and Union Light, Heat & Power Company which were subsidiaries of the parent CG&E. At this time I think those are the only four utilities that used this unique cast bronze Hubbard nail.



(Jerry Penry photo showing the "pour point" on these cast bronze nails. They have all been individually ground down by hand to eliminate the imperfections at the point where the metal was poured into the nail mold.)

Cast Bronze – Cincinnati Gas & Electric Co

Formerly Union Gas & Electric Co. – The earlier UG&E nails were 1" copper

Cast Bronze – Southwest Ohio Power Co.

The earlier SWOP nails were 1" copper (See set)

				34/40

Cast Bronze - Union Gas & Electric Co

This became Cincinnati Gas and Electric Co. - The earlier CG&E nails were 1" copper. (See Set).

Cast Bronze - Union Light, Heat & Power Co.

A subsidiary of CG&E, UG&E and SWOP. Cincinnati, Ohio. The earlier nails for this set were 1" copper (See Set).

Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails - The head is 5/8" in diameter

Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails - The head is 5/8" in diameter

Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails

The head is 5/8" in diameter

Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails The head is 5/8" in diameter

Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails — The head is 5/8" in diameter

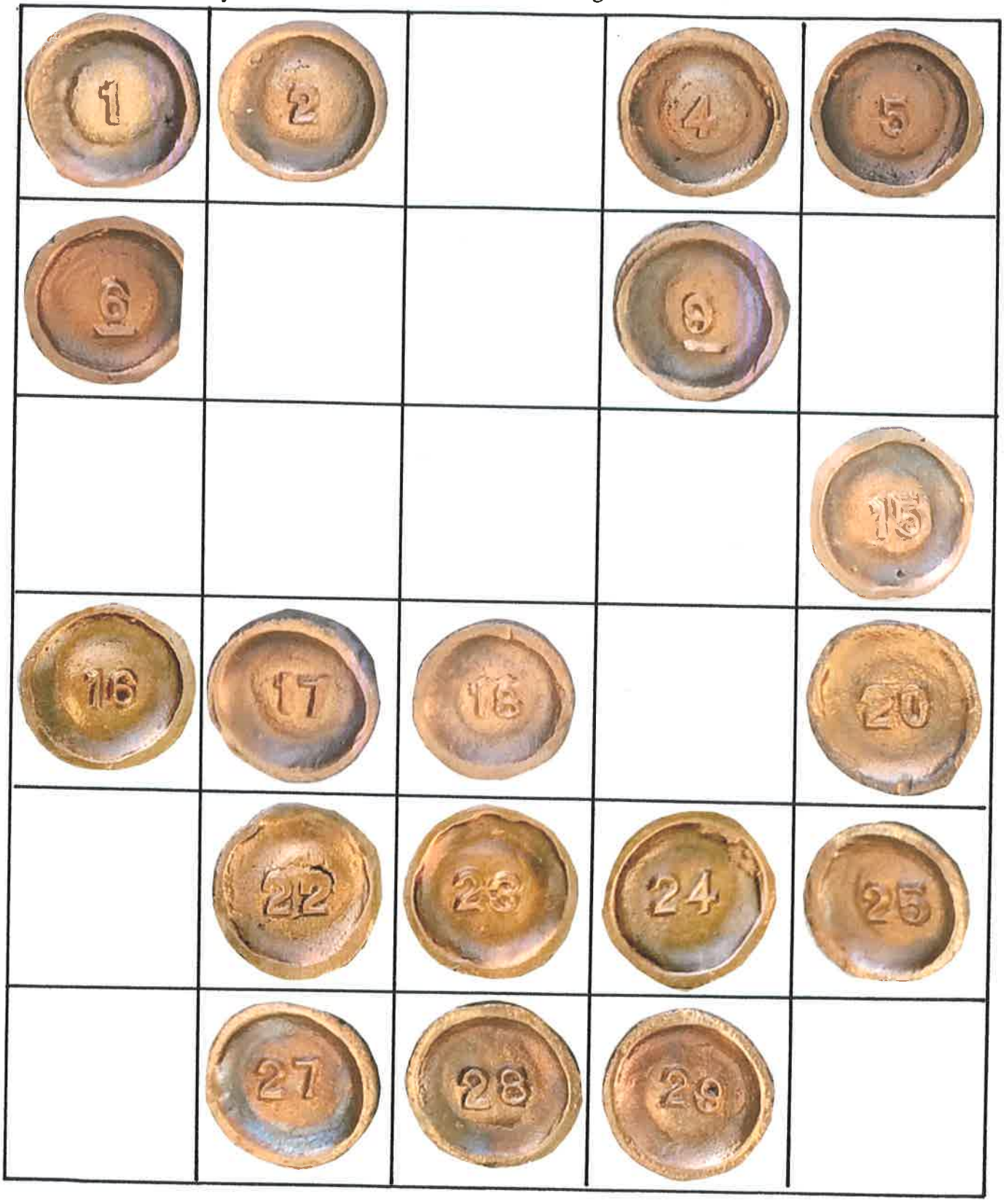
Cincinnati Gas & Electric Co. Miniature Hubbard

Cast Bronze Nails

The head is 5/8" in diameter

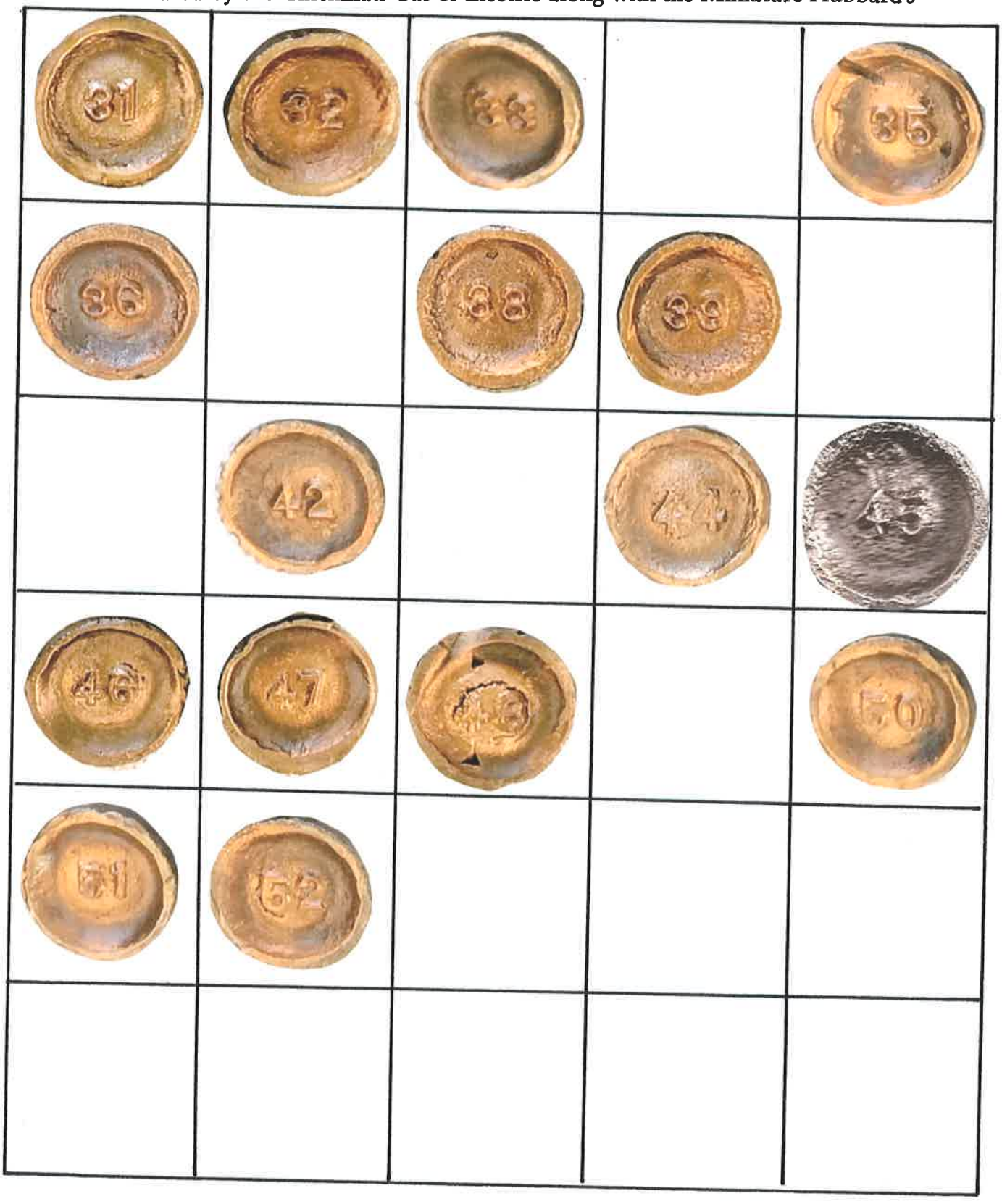
Large Cast Bronze Numbers (1")

These were used by the Cincinnati Gas & Electric along with the Miniature Hubbard's



Large Cast Bronze Numbers (1")

These were used by the Cincinnati Gas & Electric along with the Miniature Hubbard's



Steel 1"

EMP CORP	Unknown
ISU Co. 35	Iowa Southern Utilities 35
ISU Co. 45	Iowa Southern Utilities 45
NWPS	North Western Public Service
NWPS	North Western Public Service
WTP&LCO	Jackson, (TN)
35FT	Southwestern Vermont
40FT	Southwestern Vermont
100	Massachusetts

O.T.

Cast Aluminum 1"

Glenn Wiswell also has a note saying that this nail is "cast brass" used by the Reading Railroad at wired crossings to indicate a wire is under the tie. So not sure if this is cast aluminum or cast bronze? Or there may be one of each? (Help needed)

Cable — Central Railway of (NJ) Indicates a cable is burried under the tie.

Hand Stamped Hubards

Included here are copper, aluminum, bronze and steel Hubbard nails that are fully hand stamped, but verified as to who the user was. There are thousands of hand stamped nails known, but in most cases the user of those nails is truly unknown. That is the reason for this section. They are in no particular order, but as received and identified.

COPPER 1" FRM KENNECOTT COPPER MINE RUBY, NV				
	1 1/2" COPPER MOBIL OIL REFINERY BEAUMONT, TX			
ALUMINUM 1" POLE NUMBER FROM SCOTTSBORO ALABAMA				