National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

storic name <u>Turnbull Cone and Machine Company</u>	
ner names/site number Turnbull Cone Baking Co., Turnbull C	Cone
Location	
reet & number <u>1400 Fort & West Fourteenth streets</u>	NA not for publication
y or town	N∕A vicinity
ate Tennessee code county Hamilton	code <u>065</u> zip code <u>37402</u>
State/Federal Agency Certification	· · · · · · · · · · · · · · · · · · ·
Signature of certifying official/Title Deputy State Historic Preservation Officer, Tennesse State of Federal agency and bureau In my opinion, the property meets does not meet the National Register criteria.	
Signature of certifying official/Title Date	
State or Federal agency and bureau	
National Park Service Certification	
	Date of Action
See continuation sheet.	15/2
 entered in the National Register. See continuation sheet. determined eligible for the National Register See continuation sheet. 	1,5/9 2/15/9
entered in the National Register. See continuation sheet. determined eligible for the National Register See continuation sheet. determined not eligible for the National Register.	V 000 2/15/9
 entered in the National Register. See continuation sheet. determined eligible for the National Register See continuation sheet. determined not eligible for the 	V An ZISA

County a	nd S	tate
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5. Classification						
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Res (Do not include pre	sources within Property viously listed resources in the	y e count.)		
 private public-local public-State public-Federal 	 building(s) district site structure object 		Noncontributing	sites		
		1	0	objects Total		
Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.) N/A		Number of contributing resources previous in the National Register 0				
6. Function or Use						
Historic Functions (Enter categories from instructions) INDUSTRIAL: manufa	acturing	Current Functions (Enter categories from INDUSTRIAL:	instructions)			
7. Description			·			
Architectural Classification (Enter categories from instructions) OTHER: Industrial		Materials (Enter categories from foundation <u>CON</u> walls <u>BRICK</u>	instructions) CRETE			
		roof <u>METAL</u> other <u>STONE</u>				

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

8. Statement of Significance

Applicable National Registe

- **X** A Property is associated a significant contributi our history.
- **XB** Property is associated significant in our past.
- C Property embodies the of a type, period, or m represents the work of high artistic values, or distinguishable entity v individual distinction.
- D Property has yielded, information important

Criteria Considerations

- □ A owned by a religious religious purposes.
- B removed from its origi
- **C** a birthplace or grave.
- **D** a cemetery.

- E a reconstructed buildir
- **F** a commemorative pro

Hamilton Co., TN County and State

0. 0	latement of Significance	
(Mark	icable National Register Criteria "x" in one or more boxes for the criteria qualifying the property tional Register listing.)	Areas of Significance (Enter categories from instructions) INDUSTRY
A X	Property is associated with events that have made a significant contribution to the broad patterns of our history.	
ШВ	Property is associated with the lives of persons significant in our past.	
□ C	Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.	Period of Significance ca. 1924,
D	Property has yielded, or is likely to yield, information important in prehistory or history.	1933 – 1945
	ria Considerations "x" in all the boxes that apply.)	Significant Dates ca. 1924
Prope	erty is: N/A	
□ A	owned by a religious institution or used for religious purposes.	
🗆 B	removed from its original location.	Significant Person (Complete if Criterion B is marked above) Turnbull, Werd (Ward) Worth
□ C	a birthplace or grave.	Cultural Affiliation
🗆 D	a cemetery.	N/A
🗆 E	a reconstructed building, object, or structure.	
🗆 F	a commemorative property.	
ſ ∛ G	less than 50 years of age or achieved significance within the past 50 years.	Architect/Builder unknown
	tive Statement of Significance n the significance of the property on one or more continuation sheet	ts.)
	ajor Bibliographical References	
Bibilo (Cite th	pgraphy ne books, articles, and other sources used in preparing this form on	one or more continuation sheets.)
Previ	ous documentation on file (NPS): N/A	Primary location of additional data:
	preliminary determination of individual listing (36 CFR 67) has been requested previously listed in the National Register previously determined eligible by the National Register designated a National Historic Landmark recorded by Historic American Buildings Survey	 State Historic Preservation Office Other State agency Federal agency Local government University Other Name of repository:
	#	

□ recorded by Historic American Engineering Record # __

Turnbull	Cone	and	Machine	Company

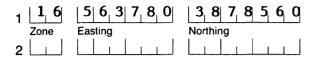
Name of Property

10. Geographical Data

Acreage of Property less than one acre

UTM References

(Place additional UTM references on a continuation sheet.)



Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

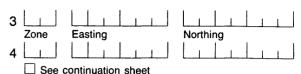
Boundary Justification

11. Form Prepared By

(Explain why the boundaries were selected on a continuation sheet.)

Hamilton Co., TN

County and State



organization Hulan Johnson, Inc.	date May 1992			
street & number P.0. Box 245				
city or town Wartrace	state zip code37183-0245			

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A Sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional items

(Check with the SHPO or FPO for any additional items)

Property Owner		
(Complete this item at the request of SHPO or FPO.)		
name Joseph Dand & David Thomas Coker		
street & number 1317 Chestnut Street	telephone (615) 265-6368	
city or town <u>Chattanooga</u>	state zip code	

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127, and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

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DESCRIPTION

The Turnbull Cone and Machine Company building, located at 1400 Fort Street in Chattanooga, Hamilton County, Tennessee, is a four story, rectangular, utilitarian, industrial brick structure, circa 1924, with a concrete block faced with brick foundation and a flat roof with a monitor. The Turnbull Cone building is situated in the remains of a historic industrial neighborhood near downtown Chattanooga, Tennessee. With downtown Chattanooga to the north and east, including the large TVA office complex to the north, and an interstate loop to the west and south, the building is one of the few historic industrial buildings remaining as an unaltered example of downtown Chattanooga's industrial heritage.

The exterior of the Turnbull Cone and Machine Company building is a simply articulated example of early twentieth century brick industrial structure using darker brick to accent the quoins, stringcourse, and watertable. This large, four story, rectangular structure measures approximately 120' by 50' and contains approximately 24,000 square feet. The facade of the Turnbull Cone and Machine Company faces north (West Fourteenth Street). Symmetrical fenestration is a uniform element, with six sets of metal industrial windows with stone sills and brick lintels flanked by a single, smaller window on each end. The middle two floors are identical with paired, twelve pane windows in which the middle six panes open hopper fashion. On the first floor the fenestration is broken by loading dock doors with large wooden roll-up doors. These doors are situated lower than the window. On the west end of the north wall is a single door entrance located out of line with the fenestration. The door is set apart from the rest of the building by the use of a small brick and concrete porch protected with an awning. There are two small industrial windows immediately east of the door which break the symmetrical pattern of the upper stories. The windows on the fourth floor are also twelve pane windows, but do not have the six pane hopper opening in the middle of the The windows on the east end provide access to the metal fire window. escape.

Turnbull's east elevation, facing Fort Street, includes on the first floor, two large wooden track doors, with awnings, and a centrally situated metal elevator door. A loading dock and concrete ramp provide access for loading an unloading. The other three floors are identical with the same twelve pane paired windows flanking a center single window with twelve panes. The center section extends above the rest of the building forming a monitor roof. A single nine pane window is located in this section.

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	1 ayo	Hamilton	County, TN

The building's south elevation contains four floors of symmetrically placed windows, identical to those on the north facade. There are no entrances on the south elevation. The west elevation is arranged in an asymmetrical fashion. The windows on the first floor are obscured by the adjacent building, and a chain link fence with a metal rooflike covering. The adjacent one story structure now houses the Roofing and Supply Company, but was originally built circa 1957 as an extension fo the Turnbull Cone Baking Company. The circa 1957 extension is not included in this nomination because its current ownership has severed the connection with the original Turnbull Cone and Machine Company building and its date of construction which would define it as noncontributing to the historic significance of Turnbull Cone and Machine Company. The buildings are not physically attached to each other.

The interior of the Turnbull Cone and Machine Company building is an open warehouse arrangement, with heavy wooden timber and beam supports on three floors, characteristic of early twentieth century industrial architecture. The first floor, originally used as office space and inventory storage, is painted plank flooring, the walls are brick, and the wooden ceiling is supported by heavy timber and post supports; the elevator shaft is centrally located in the east elevation; restroom facilities approximately twelve feet by ten feet, in the northwest corner; and a stair well in the southwest corner, complete the building's first floor configuration.

Turnbull Cone's second and third floors are large rectangular rooms identical to the first floor in size, materials, and arrangement. The second and third floors are currently used for inventory storage. The fourth floor is identical in size, and fenestration, and includes the elevator and a stairwell. The fourth floor is constructed with an elevated the monitor roof running east-west. The monitor is approximately twenty feet in width, with a continuous band of windows on both sides.

Originally the second and fourth floors were where the cones were baked. The fourth floor room was designed to release the heat by opening the monitor windows. After the cones were baked they were packed in tins and stored on the first floor for shipping. An alteration, circa 1950, added a foreman's office on the west wall and a basketball backboard on the fourth floor. All the original cone baking equipment has been removed.

A full size basement is reached by steps in the first floor's southwest corner. This large rectangular space is identical in size and shape to the first floor. A brick floor boiler/furnace room is located on the west wall. The basement floor is concrete and massive concrete piers support

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the structure at the basement level. Four small ground-level windows with arched moldings are located in the north and south elevations. This room is presently used for inventory storage.

The building is sited on a city lot bordered on the south and west by the buildings of the Roofing and Supply Company, on the north by West Fourteenth Street, and on the east by Fort Street. The building covers almost all of lot of the nominated property. There are no outbuildings presently associated with the factory.

The Turnbull Cone and Machine Company building retains a high degree of integrity of workmanship, materials, form and function in its almost unaltered state. Its function has changed slightly from when it was originally built, it is used entirely as warehouse storage storing products manufactured at another site. But it maintains an important relationship with its surroundings as an intact survival from Chattanooga's industrial boom.

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STATEMENT OF SIGNIFICANCE

The Turnbull Cone and Machine Company building, built circa 1924, located on the corner of Fort and West Fourteenth Streets in Chattanooga, Hamilton County, Tennessee is nominated to the National Register of Historic Places under National Register criterion A for its contribution to the twentieth century industrial and economic growth of Chattanooga and under criterion B for its association with Werd (Ward) Worth Turnbull, an early twentieth century inventor, who specialized in the refinement of a now commonproduct, the ice cream cone. The Turnbull Cone and Machine building is, additionally, one of a few well-preserved historic industrial structures surviving from an industrial area situated near downtown Chattanooga.

All sources agree with an assessment form the <u>Chattanooga Time</u> article of September 1938 entitled, "City Has 415 Industrial Plants," stating that "reconstruction marked the real beginning of industrialization in Chattanooga." Chattanooga was viewed as having a "large variety of diversified industries." Still iron was king. The <u>Chattanooga Times</u> of October 1926 reckoned,

> southern leadership in the production of foundry and fabricated iron products is conceded to Chattanooga. In 1925, there were 362,995 tons of pig and scrap iron melted and recast in Chattanooga plants. The advancement of Chattanooga to its present leadership and important position as a metal melting and manufacturing center has behind it a sound economic background attributed to: 1. superior labor and 2. abundant supply of cheap raw materials.

Other contributing industries, in addition to iron, ore, and coal foundries, at the turn of the century included: textiles, lumber & woodworking, mining, medicine, food products, printing, tanneries, fire brick, artificial ice, cars (the Nyberg & Holmes), banking and insurance, candy (Brock Candy - 1909), and Coca Cola Bottling which began in 1899. Clearly, another benefit Chattanooga offered a potential industrialist was a railroad hub.

Into this environment came Werd (Ward) Worth Turnbull. From his obituary of December 1951 is the following description:

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Ward (Werd) Worth Turnbull, 80, president of Turnbull Cone Machine Company and Vice-president of Turnbull Cone Baking Company died on Signal Mountain . . . he was born October 14, 1871 in Upper Sandusky , Ohio. At he opened his own confectionery business in 18, Springfield, Ohio after inventing a semi-automatic popcorn machine. Married in 1891, he conducted a wholesale candy business until 1907. In 1907 Turnbull invented the 1st semi-automatic ice cream machine and the Turnbull Manufacturing organized Company in Columbus, Ohio. He operated there until 1912 when he moved to Asheville, North Carolina. Because of an inadequate gas supply for expansion, he moved to Chattanooga in 1918 and opened a factory on Fort Street and continued to manufacture ice cream cones machines. [According to Daly Turnbull, a family member running the Turnbull Cone Company today, another reason W. W. Turnbull moved from Asheville to Chattanooga was the easy access to iron for his machines.] By 1924 he required larger quarters and moved to the present building of the Turnbull Cone Machine Company at Fort and West 14th Street.

The obituary further elaborates,

In 1925 the National Biscuit Company bought out the Turnbull business . . . Turnbull retired for seven years . . reentered the business in 1933 . . . he and his son patented a new and improved automatic cone machine. The business exported the bulk of the machine output to foreign trade.

Although the obituary says that he sold out to the National Biscuit Company, Elizabeth Turnbull states that the arrangement was a lease agreement that was to last ten years. Cones continued to be baked at the factory under the auspices of the National Biscuit Company. During this same period Turnbull continued to manufacture the machines and by 1933 had returned to baking the cones. The obituary further states,

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five years ago [approximately 1945-1946] established the Turnbull Cone Baking Company in New Orleans to manufacture cones for domestic and export sales. The business reorganized 4 years ago [1946-1947] is now 2 different companies - the Turnbull Cone Machine Company and the Turnbull Cone Baking Company.

The New Orleans plant manufactures cones and melba toast while a new Chattanooga plant continues to manufacture the cone baking machinery and the cones.

The birth of the ice cream cone is, naturally, connected with the introduction of a cold custard - ice cream - at the St. Louis World's Fair of 1904 with its theme of commerce and Industry. The century's newest ideas and concepts were displayed. The first ice cream cones were thin, hot waffles hand rolled into a cone shape, then filled with ice cream. A cumbersome process in which hands were often burned. W. W. Turnbull set to work solving this problem and invented an automatic method of making cones, receiving the original patent in 1907. The machine itself was Turnbull's first product. Turnbull, in Ohio (circa 1907 - 1912) and then in Asheville (circa 1912-1918), manufactured the patented cone making machine for sale to cone bakers.

It was not until he moved his operation to the more advanced industrial city of Chattanooga that he began actually baking the cones himself at the Fort and West Fourteenth Street location. The first cones baked by Turnbull machines, and Turnbull, were the sweet sugar cones which are pressed onto a heated plate and rolled. Molded cones, developed later, are injected into hot molds, baked, and automatically trimmed. These two types of cones, molded and sugar, are still being produced. Additionally, Turnbull Cone continues, in a new building, to maintain its historic function in production two products; the cones and the cone baking machines. The Turnbull family, holders of the original patent for design of the ice cream cone baking machines, sells ice cream cones under their trademark name of "Cup of Joy." The company bakes and packages cones under the following labels: Kroger, Winn-Dixie, and A&P.

Turnbull Cone and Machine Company and its founder, W. W. Turnbull, deserve credit for the worldwide success of the ice cream cone. In a <u>Chattanooga</u> <u>Times</u> article "Varied Chattanooga Products Enrich Life in Pan America," of March 1957 states "the company exports the baking machine in more than twenty foreign countries . . . which amounts to 90% of their production." Turnbull's general manager lists the following foreign markets as customers

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for both cones and cone baking machines: San Salvador, Mexico City, Columbia, Japan, Thailand, Australia, England, and France. The company expanded in 1957 to an adjacent 12,000 square foot one story warehouse; this property is no longer connected to the original Turnbull property and is not a part of this nomination. In 1981, the Turnbull Cone Company moved from its Fort and West Fourteenth location to a larger manufacturing plant in the Parmenas Industrial Park, located on Moccasin Bend.

The Turnbull Cone and Machine Company building is nominated to the National Register of Historic Places under Criterion A for is contribution to the industrial history of Chattanooga, Hamilton County, Tennessee. The building represents and important aspect of industrial history of the community as well as being representative of Werd W. Turnbull, and important industrial invention. Industrial architecture of this type is often either destroyed or significantly altered; the Turnbull Cone and Machine Company building at Fort and West Fourteenth has been saved from either fate by the fact that is continued in its original use until fairly recently (1981). Since its closing as a manufacturing plant in 1981, the building has changed hands only twice. The current owners appreciate its architectural integrity and intend to keep it in its original condition, using it as a warehouse for their products.

The Turnbull Cone and Machine Company building is similar in size and construction to the Crane Building, circa 1912, at 1317 Chestnut Street (NR 11/10/83), located a block to the northeast. The Crane building is associated with Chattanooga's iron industry. The Turnbull Cone and Machine Company building and the Crane Building are situated in one of the oldest sections of Chattanooga, annexed in 1841. The Turnbull Cone and Machine Company is a significant survival from Chattanooga's industrial heritage and retains high degree of integrity.

There are two distinct periods of significance for the Turnbull Cone and Machine Company building, the first period of significance is circa 1924, the date the building was constructed to accommodate the growing cone machine and cone bakery business. The second period of significance dates from 1933 to 1945 dating from the period when Turnbull reentered the business in 1933 after the National Biscuit Company stopped baking cones in the factory. Beginning in 1933 Turnbull reentered the business with a new patent for an ice cream cone machine and from 1933 to 1945 the company continued to grow under his leadership. As a result, in 1945 the Turnbull Cone and Machine Company diversified and became two companies, the Turnbull Cone Baking Company and the Turnbull Cone Machine Company. The Chattanooga plant continued to produce both machines and cones at this location until

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1981. Although the period of significance extends to less than fifty years, it is representative of an important era of growth and diversification of the Turnbull Cone and Machine Company under the leadership of W. W. Turnbull.

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MAJOR BIBLIOGRAPHICAL REFERENCES

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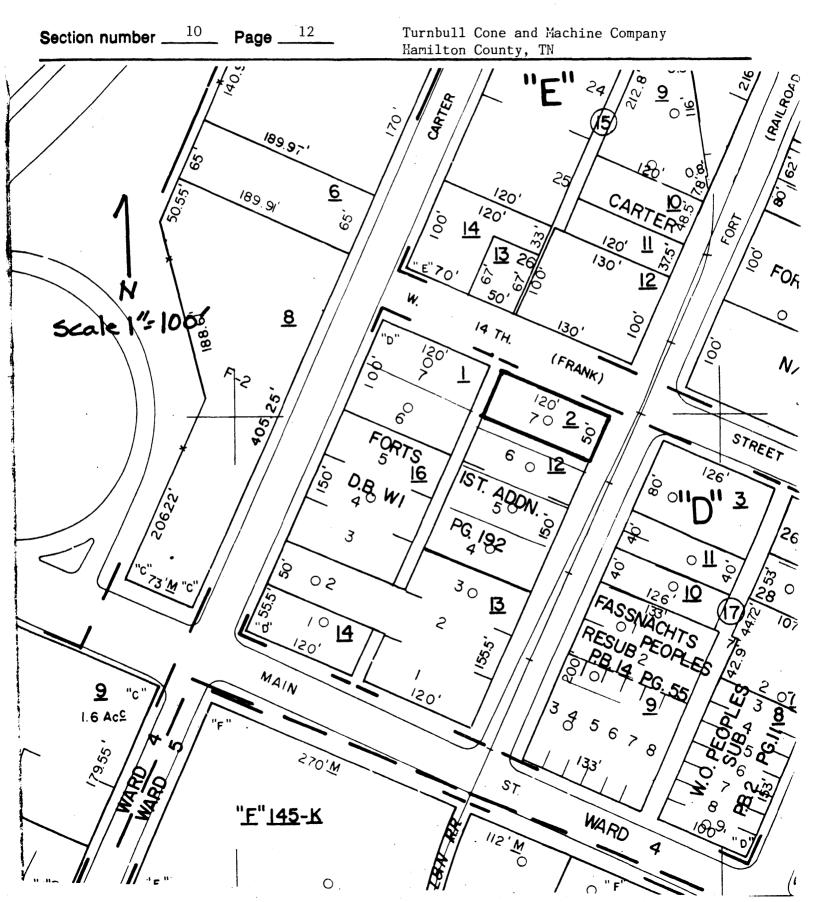
BOUNDARY DESCRIPTION

The boundary of the Turnbull Cone and Machine Company is shown on the accompanying Hamilton County, Tennessee Tax Assessor's Map. The Turnbull Cone and Machine Company Building is bounded on the north by West Fourteenth Street, on the east by Fort Street, and on the south and west by a roofing supply company.

BOUNDARY JUSTIFICATION

The boundaries include the Turnbull Cone and Machine Company building and the parcel it sits upon. The boundary is sufficient to protect the integrity of the nominated property.

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Turnbull Cone and Machine Company 1400 Fort and West Fourteenth Street Chattanooga, Hamilton County, Tennessee Hulan Johnson, Inc. Photos By: June 1991, August 1991 Date: Tennessee Historical Commission Negs: Nashville, Tennessee Facing west, east elevation. #1 of 13 Facing east, west elevation #2 of 13 Facing west, east elevation #3 of 13 Facing southwest, east elevation and north facade #4 of 13 Facing southwest, east elevation and north facade #5 of 13 Interior timber supports #6 of 13 Interior timber supports #7 of 13 Facing south, north facade entry #8 of 13 Facing east, west elevation #9 of 13 Fourth floor #10 of 13 Fourth floor #11 of 13

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Fourth floor #12 of 13

Elevator buttons #13 of 13