## ATTACHMENT B: Architectural Description, Photographs & Documentation

#### 72 E. GLENARM STREET

#### Description

The Glenarm Power Plant is located on a 7-acre property at the southeast corner of East Glenarm Street and South Fair Oaks Avenue. The power plant building itself is situated toward the northwest corner of the property; adjacent to it, at the extreme northwest corner is a landscaped yard and fountain. The remainder of the property consists of large tanks, transformers, transmission lines, and associated unenclosed infrastructure. The power plant building that exists today was built as an addition to the now-demolished original power plant. The original power plant building, which was located on the south side of Glenarm Street at the terminus of South Raymond Avenue, and a 1924 addition, were demolished in the 1960's. The additions that comprise the existing building were constructed in 1928 and 1932. The fountain was built in 1938 as a mechanism to cool turbine unit number 8 and the building itself.

The 32,250-square-foot power plant building is rectangular in plan and monumental in scale, with two architecturally distinct wings on the eastern and western ends. The height of the building ranges from 30 feet to 70 feet. The three-story western end, constructed in 1932 and the portion most open to public view, is designed in the Moderne style. It is configured with two similar bays, both of which have a flat roof. The northern bay has a shorter parapet than the southern bay and has arched windows on the first floor as opposed to the southern bay, which has rectangular window openings. The remainder of the west elevation is symmetrical with fluted pilasters framing tripartite second and third floor window groupings. The entire western wing has a sculptural geometric frieze at the roofline.

The eastern wing, constructed in 1928 and designed in the Georgian Revival style, is two-stories in height. It has paired gambrel roof forms oriented toward the east which, based on historical photographs, were originally gabled roof forms. The north elevation of this wing (facing E. Glenarm Street) gives the appearance of having a flat roof. The impression is enhanced by the addition of an articulated cornice. This elevation is highly symmetrical with cast cement plaster pilasters separating ground-floor arched windows and second-floor round windows, all framed in cast cement plaster. Windows throughout the entire building are steel fixed or casement windows with divided lights.

#### Interior

Section 17.62.040 of the Pasadena Municipal Code states, "historic monument designation may include significant public or semi-public interior spaces and features." The application requests designation of significant interior spaces.

The interior spaces of the building are completely open from floor to ceiling. The turbine hall, which is the northernmost portion of the building, includes two deep mechanical wells, surrounded by wrought-iron railings with a classical fretwork design. The interior walls also have Gladding McBean ceramic tile wainscoting and bracketed metal lamps, as well as a built-in clock on the westernmost wall. The only remaining turbines, unit number 8 installed in 1932 and unit number 9 installed in 1949, are located in the western end of the turbine hall (the portion

constructed in 1932). The mechanical well beneath these turbines contains the condenser units associated with each turbine and the southern wall of the turbine hall has control panels and gauges. The boiler room, adjacent to and south of the turbine hall, contains the boilers, burners, feed pumps, steam valves and pressure and heat gauges for each of the turbine units (two boilers per unit).

The turbines, condensers, boilers and other infrastructure that were in the older eastern portion of the building have all been removed. Interior wall features (tile wainscoting, lamps, railing, crane) remain intact. Traversing the area between the eastern and western portions of the building is a rail spur that was originally used for delivery of heavy equipment to the facility and was connected to the main rail line (now the MTA Gold Line).

It is important to note that the remaining portions of the building, which were additions to the original power plant building, were designed to accommodate expansion of the facility. As the use of electric power became more prevalent in the city and the technology continued to change, each new addition needed to include sufficient space to contain future power-generating equipment. Although the last addition to the building itself was constructed in 1932, the period of significance of the property should extend to 1949 when the last turbine and its associated equipment was installed.

A similar facility, though larger in size, is the Seaholm Power Plant in Austin. Completed in 1950, and a late example of Streamline Moderne design, it is currently undergoing conversion to a residential use. Internationally the most celebrated power plants from the mid-twentieth century are the monumental Battersea Power Station in London (1929-1939, Giles Gilbert Scott, architect) and the Bankside Power Station in London (1947, Giles Gilbert Scott), now the Tate Modern.

#### Electric Fountain

The electric fountain, located immediately west of the existing building within the front yard area, was originally built for the purposes of cooling the facility and equipment (specifically, turbine unit number 8). The front yard area also has a series of walkways that radiate out from the fountain as well as a freestanding monument. The fountain was designed by the City's Power Department engineers and replaced a cooling tower that had been on the site since the original power plant was built in 1906.

The fountain is set within a circular basin and reflecting pool lined with yellow tiles (a portion of which have images of the City logo flanked by lightning bolts). The pool is surrounded by a low cast-stone wall with inscription, "Light Power Pasadena 1938" between two rows of wave crests in low relief. The fountain itself consists of a single-tier center tower framed metal and covered with nozzles and translucent-glass panels. Originally the jets of water were as high as 100 feet and had pulsating colors and displays. The fountain was turned off during

war-time blackouts during the Second World War and when it resumed operation the water spray was considerably lower in height<sup>1</sup>.

Electric fountains first became popular during the late-nineteenth century largely through the commissions of Frederick W. Darlington (1865-1947), an electrical Darlington designed elaborate fountains for engineer from Philadelphia. amusement parks and civic parks in the U.S. and elsewhere, including a 200-foot tall electric fountain for Crystal Palace in London and similar fountains in Chapúltepec Park in Mexico City and Propsect Park in Brooklyn. He was also responsible for designing the Prismatic Electric Fountain (1908—not in operation) in Denver and the three electric fountains (1916) in Garfield Park in Indianapolis. Electric fountains were featured at 1901 Pan-American Exposition in Buffalo, the 1933 World's Fair in Chicago, and the 1939 World's Fair in New York (notably the spectacular sound and light display of the Pool of Industry). The Glenarm Fountain is one of three electric fountains in the Los Angeles area. The other Beverly Hills Electric Fountain, 1931, Santa Monica Boulevard, designed by Ralph Flewelling, and the Mulholland Memorial Fountain, 1940, Riverside Drive, Los Angeles (photo below).

#### **Character-Defining Features (Interior and Exterior)**

Major exterior character-defining features include the roof form, the decorative pilasters and frieze, window placement and material and exterior coating (which is currently undergoing restoration to remove texture coating that was added).

Character-defining interior features include: the monumental spatial relationships in the western turbine hall and boiler room; the visible equipment and infrastructure including control panels, burner fronts, feed pumps, steam valves and turbines; the floor-to-ceiling hallway between the boilers (including the free-floating master gauge in the hallway); the railings, wainscoting, bracketed lamps, wall clock and flooring in the turbine hall and the remaining rail spur. Those features that are of secondary importance include: the boilers themselves and associated pipes, the condensers in the equipment wells, and the easterly portion of the building from which all equipment has already been removed, with the exception of the original tile wainscoting and bracketed lamps.

#### Bennett & Haskell, Architects

J. Cyril Bennett (1891-1957) and Fitch Haskell (1924-2002) formed the firm of Bennett & Haskell in Pasadena in 1923. This collaboration, which lasted 11 years, produced designs for numerous commercial and institutional buildings throughout Pasadena, as well as a relatively small number of residential buildings. Examples of the firm's work include the Pasadena Masonic Temple, the First Trust Building, the Holliston Avenue Methodist Episcopal Church, the Raymond Theater, the Alexander Hamilton School, the Madison School and several new building facades on Colorado Boulevard after its widening in 1929.<sup>3</sup>

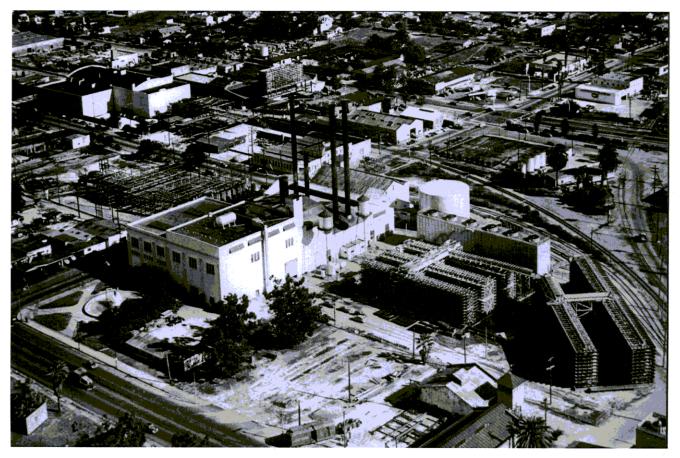
<sup>&</sup>quot;Water, Light to Provide Spectacle," Pasadena Star-News, December 23, 1938.

<sup>&</sup>lt;sup>2</sup> Sources: http://electricfountain.home.att.net/6-Darlington3.html; Maj. F. W. Darlington, Engineer, Inventor, New York Times, July 25, 1947.

<sup>&</sup>lt;sup>3</sup> Grimes, Teresa and Winder, Mary Jo: Residential Period Revival Architecture and Development in Pasadena from 1915-1942, 2004



Aerial photo of site (2006)

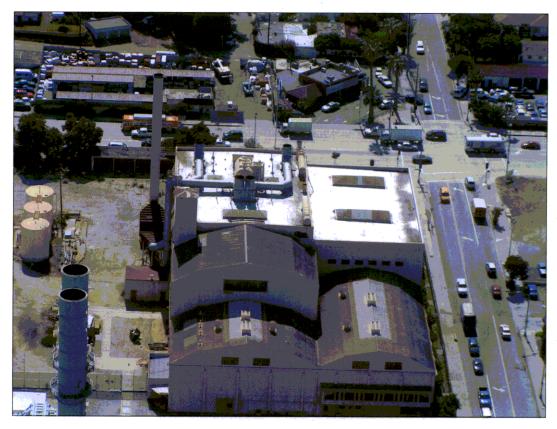


Aerial photo from 1930's



Aerial photo from 1950's

72 E. Glenarm Street: Glenarm Power Plant



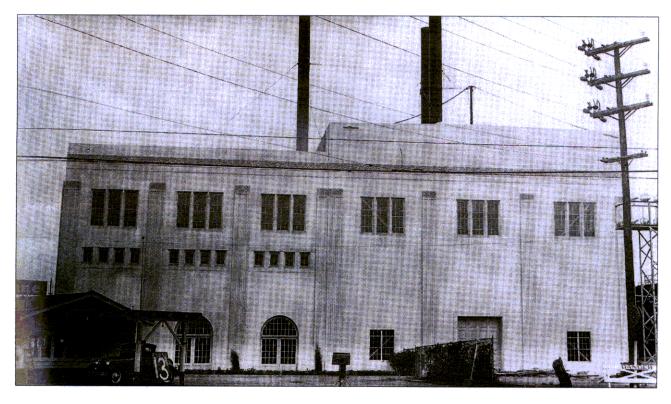
Aerial from east/rear (2005)



1906 Power Plant building (now demolished) on E. Glenarm Street at terminus of S. Raymond Ave.



Original configuration of power plant with all additions



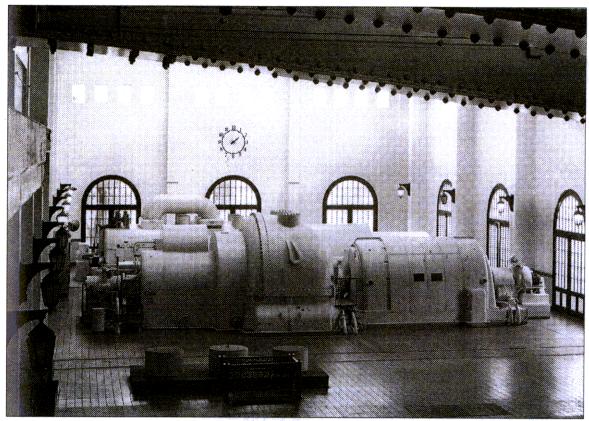
West elevation of power plant (late 1920's)



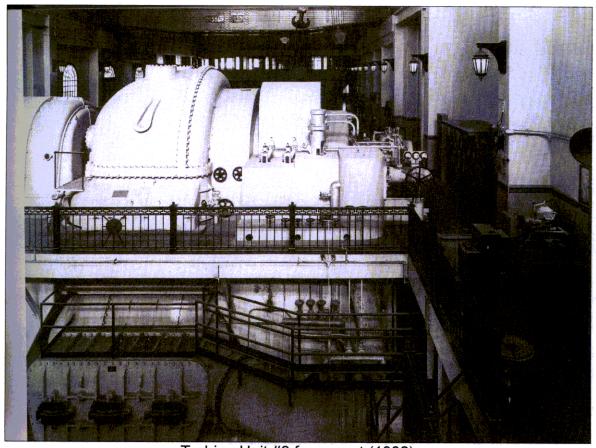
West elevation (date unknown)



West elevation (current)



Turbine Unit #8 (from east - 1932)



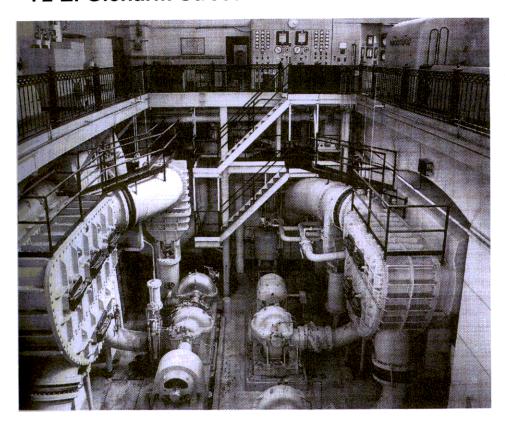
Turbine Unit #8 from west (1932)



Turbine Unit 9 (current), clock and railing



Turbine Unit 8 (current)



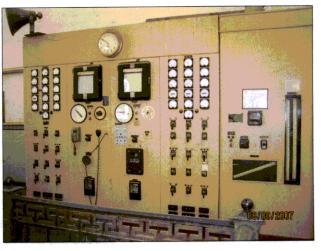
Mechanical well/condenser units from north (early 1950's)



Mechanical well/condenser units (current)



Turbine Hall clock detail



Turbine Hall control panel detail



Turbine Hall control panel detail



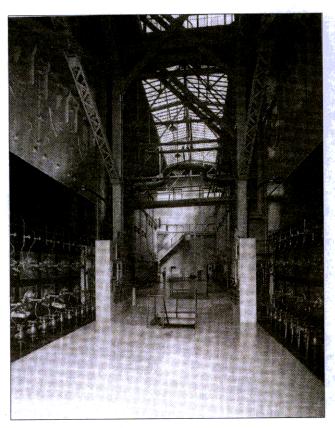
Turbine Hall tile detail



Easterly portion of Turbine hall



Turbine Hall tile and lamps

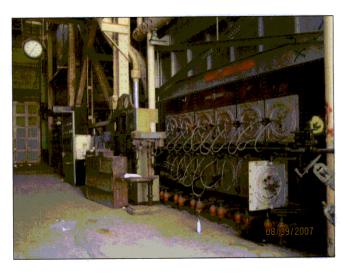


Boiler Room hallway (east end - now empty)



Boiler Room hallway (west end - current)





Boiler Room hallway/burner fronts



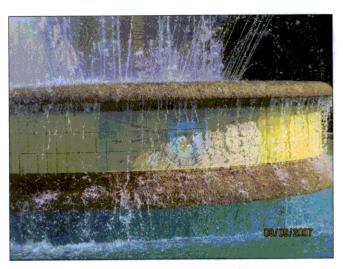
Fountain



Close-up of fountain



Fountain perimeter wall detail



Fountain tile detail

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PRIMARY RECORD		Trinomial	
		NRHP Status C	ode <sup>2S2</sup>
Page1 of5	Other Listings		
	Review Code	Reviewer Chris	ty J. McAvov Date
P1. Resource Identifier: GLENARM POWER	דוגום פ		
P2. Location: a. County Los Angeles	and (Address and/	or UTM Coordinates	. Attach Location Map as required.)
b. Address 72 E GLENARM	( )		
City Pasadena		Zip	
c. UTM: USGS Quad	(7.5'/15') Date	; Zone	, mE/ mN
d. Other Location Data (e.g., parcel #	t, legal description, direc	tions to resources, ad	ditional UTMs, etc., when appropriate):
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P3. Description Describe resource and its	major elements. Include	design, materials, co	ndition, alterations, size, setting,
and boundaries):	major cicineras. moises		
Rectangular in plan, this ind			
finished in stucco. It is contwo-story French Neo Classical northern wing, which has a fill pilasters and tripartite secondarde. This implied symmetry openings on the first floor of grassy plaza with a large circumain entry doors in the easted directly below its parapet little two-story of the control of	emprised of a three al style wing to the lat roof, is divide and and third floor by is broken, however the eastern bay roular fountain at ern bay. A frieze	e-story Moderne so the south. The freed into two similar fenestration are er, by differing and the high paraits center provide of geometric orrangely	cont facade of the north, and a cont facade of the primary ar bays. Regularly spaced be symmetrically arranged on the features such as arched capet of the western bay. A des a formal path of travel to nament wraps the north wing melter (See continuation sheet)
			P6. Date Constructed/Age:  ☐ Prehistoric ☑ Historic ☐ Both  1928 & 1932
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			P8. Recorded by (Name, affiliation
			and address): Christy J. McAvoy
			Historic Resources Group
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			Los Angeles, CA 90028
	266	<b>國教艺</b> 7000	
		加速等	P9. Date Recorded: 10/9/95
			P10. Type of Survey:
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Other (List): \_

- NONE

Attachments:

\_ District Record

· Map Sheet

Linear Resource Record

∑ Building, Structure, and Object Record

State of California — The Resources Agency	
DEPARTMENT OF PARKS AND RECREATION	
CONTINUATION SHEET	

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Page 2 of 5				
	GLENARM	POWER	PLANT	

(Continued from Primary Record, P3 Description)

the one-story southern wing. Its main facade is divided into bays by pilasters formed by multiple ashlar block masonry elements. Smaller ashlar blocks frame evenly spaced arched first floor and oriel second floor openings. Windows on all facades of the building are typically multilight metal casements.

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	Resource Identifier: GLENARM POWER PLANT Glenarm Steam Plant	
	MISTORIC NAME.	
B3.	Common Name: Glenarm Power Plant	
		7
	City: Pasadena County: Los Angel	esZip:
B5.	Address: 72 E GLENARM  City: Pasadena County: Los Angel  Zoning: B6. Threats: Earthqua	ke damage
B7.	Architectural Style: Moderne and French Neo Classical	
B8	Alterations and Date(s): 1950 Addition built on se	
	1950 Addition bulle on 5	Judin Coo Cooting In Live
20	Moved? ⊠ No ☐ Yes ☐ Unknown Date:	Original Location:
B10	Related Features: 1938 Water Cooling Fountain desig	ned by Harold H. Lewis
D 10.	Weight tarasses	
D11	Architect Unknown Bennett + Haskell b-permit Buil	der: Unknown
D11.	Architect: Unknown Bennett + Haskel b-permit Buil Historic Attributes (List attributes and codes):	
D 12.	HPO9 Public Utility Building	
D42	Significance: Theme Community Development and Utili	ties Area Pasadena
D 13.	HPO9 Public Utility Building  Significance: Theme Community Development and Utili  Period of Significance Property Type Power  The Property Type Power architectural context as	Plant Applicable Criteria A
	(Discuss importance in terms of historical or architectural context as	defined by theme, period, and geographic scope
	Also address integrity.)	a to all a few its male
	The Glenarm Power Plant is eligible for the Nation	al Register under Criterion A for its fore
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	the Glenarm Power Plant, first erected in 1907 and	expanded nine times until 1990, 2022000
	the growing importance of this technology to the C	ity.
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	City was able to terminate its contract with Ediso	n and, in 1909, extend the utility to serve
	residential and commercial customers.	
	Although Pasadena's electricity rates were origina	lly lower than Edison's, a rate war broke
	to offer their	OSSES. IN TESDONSE, Pasadema albo
	their rates, and customers began transferring to	hichever utility (See continuation sheet)
	their rates, and customers began transferring to	
B14	References:	
	Annual Report of the Pasadena Municipal Light	(Sketch Map with north arrow required.) мт
	and Power Department, "50 Years of Service:	NA CONTRACTOR OF THE PROPERTY OF THE PARTY O
	1906 - 1956."	
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# State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

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(Continued from Building, Structure and Object Record, B13 Significance)

had the least expensive rate. Some Pasadena residents had service from both utilities and used switches to shut off whichever service was more expensive at the time. However, many customers retained loyalty to their municipal service even in the face of higher rates.

Although many Edison executives and stockholders lived in Pasadena, their attempts at political influence were unsuccessful, and in 1914 former Pasadena City Attorney, Senator William J. Carr introduced a bill into the California legislature that made it illegal for Edison to charge discriminatory rates among cities. Unable to maintain their artificially low rates, in 1920 Edison sold its Pasadena business to the Pasadena Municipal Light and Power Department.

The Power Department continued to expand the capacity of Pasadena's utilities during this period and beyond. The City purchased Edison's facilities in Pasadena when it bought out the private utility. Electric service became important in the growth of industry, requiring systems to be run during the daytime as well as the night. The Pasadena Municipal Light and Power Department installed five generators between 1907 and 1920 to meet the needs of the City. In 1924, an addition was built onto the western facade of the original Glenarm Steam Plant to house another Generating Unit. In 1928, a steam turbine generator was added, requiring yet another addition on the western facade of the plant. This is the oldest section of the building still extant today.

The Pasadena Municipal Light and Power Department was responsible for some innovation during the period between the two world wars. In 1929, the Rose Bowl stadium was among the first stadiums to have lights installed to make night football possible. In 1938, a decorative fountain was built at the northwest corner of the Glenarm Power Plant site. The water circulating through this fountain was used to provide cooling water for the plant. Although not now used for this purpose, the Department plans its reactivation to help cool the air-conditioning for the current Dispatch Center across the street.

In 1932 yet another addition was built to house the eighth generating unit. Up until this date, the demand for electricity had continued to grow as the City grew, but from 1932 to 1936, growth halted due to the Depression, although consumption never dropped. The Department continued its expansion and construction during this period, allowing people unemployed due to the Depression to work two weeks at a time to pay off their light bills and to earn income for food and housing. This allowed the utility to meet the resurgence of demand that accompanied the changeover to a war-time economy.

The end of World War II predicated another growth spurt in Pasadena, leading to higher demand for electricity. In 1950, the ninth and last generator was added to the Glenarm Power Plant, with an addition built to house this generator on the south of the 1932 section. The 1907 and 1924 portions of the building were demolished sometime after 1960, leaving only the 1928, 1932 and 1950 additions.

The history of the Glenarm Power Plant building reflects the growing importance of electricity after the turn of the century, both to the City of Pasadena and elsewhere. Although the earliest sections of the building are no longer extant, the portion of the structure that remains indicates the importance of the utility in the City and evokes its period of growth and expansion.

# State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

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Resource Identifier: GLENARM POWER PLANT

(Continued from Building, Structure and Object Report, B14 References)

Cartmell, A.W. "Thumbnail Historical Sketch of the Pasadena Municipal Light & Power Department" from a Pasadena Light and Power Department brochure dated 1960.

Scheid, Ann. Pasadena: Crown of the Valley (Pasadena: Windsor Publications, Inc.), 1986.