

RESOLUTION NO. 8-92

A RESOLUTION APPROVING AND AUTHORIZING EXECUTION
OF AGREEMENT FOR COGENERATOR SYSTEM DESIGN SERVICES

RESOLVED by the Board of Directors of the Sewer Authority
Mid-Coastside, San Mateo County, California, as follows:

WHEREAS, this Board is endeavoring to enlarge the
Authority's wastewater treatment facilities consistent with the
approved service needs for the area comprising the Authority'
three member agencies;

WHEREAS, in furtherance thereof, and after approval by each
member agency of a budget therefor, this Board did, by its
Resolution No. 4-91, undertake the final design thereof;

WHEREAS, as a part of the final design of the wastewater
system enlargements, this Board desires to undertake the design
of a cogenerator system;

WHEREAS, staff has presented to this Board a budget for the
cogenerator system design services (Budget) and transmitted it
to each of the member agencies;

WHEREAS, each member agency has approved the Budget; and

WHEREAS, there has been submitted to this Board a proposed
agreement by and between the Authority and John Carollo
Engineers for the cogenerator system design services;

NOW, THEREFORE, IT IS FOUND, DETERMINED, and ORDERED as
follows:

1. The above recitals are true and correct.
2. The Budget is hereby approved.
3. That certain agreement entitled "Cogenerator System
Design", by and between the Authority and John Carollo
Engineers, a copy of which has heretofore been presented to
this Board, is hereby approved.
4. The Chairman is hereby authorized and directed to
execute the agreement on behalf of the Authority, and the
Secretary is hereby authorized and directed to countersign same.

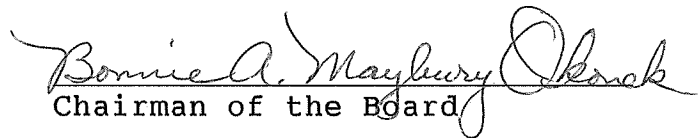
5. A certified copy of this Resolution shall be provided to each of the member agencies.

I hereby certify that the foregoing is a full, true and correct copy of a resolution duly and regularly adopted by the Board of Directors of the Sewer Authority Mid-Coastside, San Mateo County, California, at its meeting held on the 26th day of October, 1992, by the following vote of its members:

AYES, Members: Okonek, Prosser, Pastorino, Wall, Briody, Patterson.

NOES, Members: None.

ABSENT, Members: None.


Chairman of the Board


Secretary

**TASK ORDER NO. 7
COGENERATION SYSTEM DESIGN**

**SEWER AUTHORITY MID-COASTSIDE
AND
JOHN CAROLLO ENGINEERS**

This Task Order No. 7 is issued by the Sewer Authority Mid-Coastside (SAM) and accepted by the ENGINEER pursuant to the mutual promises, covenants and conditions contained in the Agreement between the above named parties dated October 18, 1991.

PURPOSE

To prepare final plans and specifications for a cogeneration system to be added to the Wastewater Treatment Plant Enlargement Final Design Project.

SCOPE OF SERVICES

Task 1.0 Predesign of Cogeneration System

Predesign services will include:

1. Selecting the size (output) of the cogeneration system based on an economic analysis and projected digester gas production. The criteria for sizing the cogeneration system will be to eliminate use of the digester waste gas flare except when the cogeneration system is out of service for maintenance. In addition, an analysis will be performed to determine if the engine should have conventional or clean-burn technology to comply with Bay Area Air Quality Management District air discharge requirements.
2. Preparation of preliminary layouts, schematics, and process and instrumentation diagrams, and a construction cost estimate.
3. A brief letter report summarizing the above analyses and recommendations. The report will be reviewed by SAM prior to proceeding with final design.

Task 2.0 Final Design

Upon SAM's approval of the predesign report, final plans and specifications will be prepared. The plans and specifications will be included with the final design documents for the plant enlargement project.

PROJECT ELEMENTS

The project elements associated with this task order include:

1. One digester gas-fueled engine generator to be housed in the new Digester Control Building.
2. Digester gas filtration and gas compressor (required for clean burn engine and possibly for conventional engine).

3. Heat recovery equipment, including exhaust heat, jacket water heat, and waste heat exchangers, integrated with the digester heating system.
4. Critical residential noise silencer for the engine exhaust.
5. Noise attenuation panels or other sound mitigation measures in the new Digester Control Building.
6. Electrical switchgear to allow parallel operation with Pacific Gas & Electric (PG&E).

EFFECTIVE DATE

Task Order No. 7 is effective as of October 27, 1992.

PAYMENT TO ENGINEER

Payment to the ENGINEER shall be on an hourly basis in accordance with the fee schedule included in Task Order No. 6. A budget cost ceiling, as detailed in the attached Exhibits A and B, is hereby established for ENGINEER's services and will not be exceeded except for OWNER-requested changes in ENGINEER's services.

TIME OF COMPLETION

Task Order No. 7 shall be completed within 90 days following SAM's notice to proceed.

IN WITNESS WHEREOF, duly authorized representatives of the DISTRICT and the ENGINEER have executed Task Order No. 7 by SAM and acceptance by the ENGINEER.

JOHN CAROLLO ENGINEERS

SEWER AUTHORITY MID-COASTSIDE

By Walter A. Bishop
Walter A. Bishop
Partner

By Bonnie A. Maybury Okonek
Bonnie Okonek
Chairperson

By Walter R. How
Partner

EXHIBIT A

**TASK ORDER NO. 7
COGENERATION SYSTEM DESIGN**

**SEWER AUTHORITY MID-COASTSIDE
AND
JOHN CAROLLO ENGINEERS**

REVISED AND NEW DRAWING LIST

<u>Drawing</u>	<u>No. of Sheets</u>	<u>Hours per Sheet</u>	<u>Total Hours</u>
NEW DRAWINGS			
Mechanical Schematics (Gas System, Lube Oil Heat Recovery System)	1	120	120
Mechanical Plans and Sections	1	160	160
Mechanical Sections and Details	1	160	160
Electrical - Panel Elevations	0.5	100	50
Engine Control Schematics	1	100	100
P&ID Engine/Generator	1	100	100
P&ID Heat Transfer, Lube Oil	<u>1</u>	<u>100</u>	<u>100</u>
TOTALS	6.5		780
REVISED DRAWINGS			
Paving & Grading Plan - Revise North of Control Building to Include New Equipment			8
Yard Piping - Include Lube Oil Lines			4
D-1 - Revise Mechanical Plan to Include Heat Recovery Equipment and Lube Oil Piping			20
D-3 - Revise Mechanical Plan to Include Heat Recovery Equipment			40
D-4 - Revise Mechanical Plan to Include Engine and Support Equipment			40
D-5 - Revise Mechanical Section to Include Heat Recovery, Lube Oil and Other Equipment			40
D-10 - Gas and Hot Water Schematics			<u>32</u>
		TOTALS	184
		TOTAL HOURS	<u>974</u>

EXHIBIT B

TASK ORDER NO. 7
COGENERATION SYSTEM DESIGN

SEWER AUTHORITY MID-COASTSIDE
AND
JOHN CAROLLO ENGINEERS

ESTIMATED COSTS

<u>Personnel</u>	<u>Classifi- cation</u>	<u>Rate</u>	<u>Task 1 Predesign Hours</u>	<u>Task 2 Final Design Hours</u>	<u>Total Hours</u>	<u>Total Costs</u>
Partner in Charge	Partner	\$125.40	2	17	19	\$ 2,383
Project Manager	EVII	117.00	4	44	48	5,616
Project Engineer	EVI	107.40	8	85	93	9,988
In-House TRC	EVIII	122.30	4	10	14	1,712
Discipline Engr	EVI	107.40	60	157	211	22,661
Engineer	EIV	88.30	8	90	98	8,653
Design/Drafting	Des. V	61.70	24	418	442	27,271
Word Processor	WP	47.00	<u>8</u>	<u>41</u>	<u>49</u>	<u>2,303</u>
TOTALS			118	856	1,084	\$80,587

A RESOLUTION APPROVING AND AUTHORIZING
EXECUTION OF AGREEMENT FOR COGENERATION SYSTEM DESIGN SERVICES

RESOLVED, by the Sanitary Board, Montara Sanitary District, a Public Agency, in the County of San Mateo, as follows:

WHEREAS, this Board is endeavoring to enlarge the Sewer Authority Mid-Coastside's wastewater treatment facilities consistent with the approved service needs for the area comprising the Authority's three member agencies;

WHEREAS, in conjunction therewith this Board desires to undertake a Cogeneration System Design;

WHEREAS, there has been submitted to this Board a proposed agreement by and between the Authority and John Carollo Engineers for the Cogenerator System Design Services;

WHEREAS, there has been presented to this Board a budget for the Cogenerator System Design Services (Budget);

NOW, THEREFORE, it is determined and ordered that:

1. The above recitals are true and correct.
2. That certain agreement entitled "Cogeneration System Design", by and between the Authority and John Carollo Engineers, a copy of which has heretofore been presented to this Board as Exhibit A, is hereby approved.
3. This Board agrees that it will be responsible for its share, twenty percent (20%), of the Cogenerator System Design cost, up to a maximum of \$16,117 as called for in the proposed agreement.
4. The President is hereby, authorized and directed to execute the agreement on behalf of the Sanitary District, and the Secretary is hereby authorized and directed to countersign same.
5. A certified copy of this resolution shall be provided to the Sewer Authority Mid-Coastside.

I hereby certify that the foregoing is a full, true and correct copy of the resolution duly passed and adopted by the Sanitary Board of the Montara Sanitary District, San Mateo County, California, at a regular Board meeting thereof held on the 1st day of October, 1992, by the following vote:

AYES, and in favor thereof, Briody, Price, Shapira, Wall

NOES,

Directors: None

ABSENT,

Directors: None

ABSTAIN,

Directors: Wegehaupt

Mark S. Wegehaupt
President
Montara Sanitary District

COUNTERSIGNED:

Tom J. Wood
Secretary
Montara Sanitary District

RECEIVED

NOV 17 1992

RESOLUTION NO. 575

SEWER AUTHORITY MID-COASTSIDE

**A RESOLUTION APPROVING AND AUTHORIZING
EXECUTION OF AGREEMENT FOR COGENERATION SYSTEM DESIGN SERVICES**

RESOLVED, by the Sanitary Board, Granada Sanitary District,
a Public Agency, in the County of San Mateo, as follows:

WHEREAS, this Board is endeavoring to enlarge the Sewer
Authority Mid-Coastside's wastewater treatment facilities
consistent with the approved service needs for the area
comprising the Authority's three member agencies;

WHEREAS, in conjunction therewith this Board desires to
undertake a Cogeneration System Design;

WHEREAS, there has been submitted to this Board a proposed
agreement by and between the Authority and John Carollo Engineers
for the Cogenerator System Design Services;

WHEREAS, there has been presented to this Board a budget for
the Cogenerator System Design Services (Budget);

NOW, THEREFORE, it is determined and ordered that:

1. The above recitals are true and correct.
2. That certain agreement entitled "Cogeneration System
Design", by and between the Authority and John Carollo Engineers,
a copy of which has heretofore been presented to this Board as
Exhibit A, is hereby approved.
3. This Board agrees that it will be responsible for its
share, thirty percent (30%), of the Cogenerator System Design
cost, up to a maximum of \$24,176 as called for in the proposed
agreement.
4. The President is hereby, authorized and directed to
execute the agreement on behalf of the Sanitary District, and the
Secretary is hereby authorized and directed to countersign same.
5. A certified copy of this resolution shall be provided to
the Sewer Authority Mid-Coastside.

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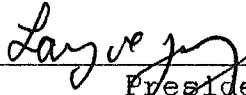
I hereby certify that the foregoing is a full, true and correct copy of the resolution duly passed and adopted by the Sanitary Board of the Granada Sanitary District, San Mateo County, California, at a regular Board meeting thereof held on the 14th day of October, 1992, by the following vote:

AYES, and in favor thereof, De Young, Murphy, Okonek, Hall

NOES, Directors:

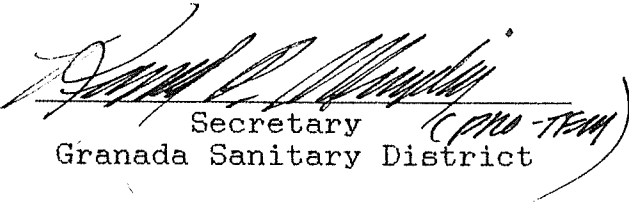
ABSENT, Prosser Directors:

ABSTAIN, Directors:



President
Granada Sanitary District

COUNTERSIGNED:



Secretary (PRO-TEAM)
Granada Sanitary District

RESOLUTION NO. C- 7192

A RESOLUTION OF THE CITY COUNCIL OF HALF MOON BAY APPROVING AND
AUTHORIZING EXECUTION OF AGREEMENT FOR TASK ORDER NO. 7 -
COGENERATION SYSTEM DESIGN SERVICES

WHEREAS, the City Council is endeavoring to enlarge the Sewer Authority Mid-Coastside's wastewater treatment facilities consistent with the approved service needs for the area comprising the Authority's three member agencies, and

WHEREAS, in conjunction therewith this Council desires to undertake a Cogeneration System Design; and

WHEREAS, there has been submitted to this Council a proposed agreement by and between the Authority and John Carollo Engineers for the Cogeneration System Design Services (Budget);

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Half Moon Bay that

1. The above recitals are true and correct.
2. That certain agreement entitled "Cogeneration System Design", by and between the Authority and John Carollo Engineers, a copy of which has heretofore been presented to this Council as Exhibit A is hereby approved.
3. This Council agrees that it will be responsible for its share, fifty percent (50%) of the Cogeneration System Design cost, up to a maximum of \$40,294 as called for in the proposed agreement.
4. The Mayor is hereby authorized and directed to execute this agreement on behalf of the City, and the City Clerk is hereby authorized and directed to countersign same.
5. A certified copy of this Resolution shall be provided to the Sewer Authority Mid-Coastside.

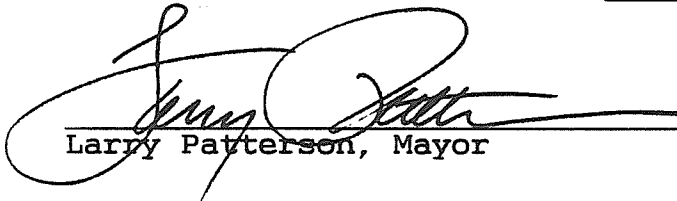
I hereby certify that the foregoing is a full, true and correct copy of the Resolution duly passed and adopted by the City of Half Moon Bay at a regular City Council meeting thereof held on the 20 day of Oct., 1992, by the following vote:

AYES, Councilmembers Iverson, Ruddock, Patridge, Pastorino & Mayor Patterson

NOES, Councilmembers _____

ABSENT, Councilmembers _____

ABSTAIN, Councilmembers _____


Larry Patterson, Mayor

ATTEST:


Dorothy R. Robbins, City Clerk

PASSED AND ADOPTED AT THE
COUNCIL MEETING OF
Oct. 20, 1992
D. Robbins
CITY CLERK