



Aquila

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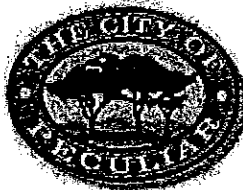
MAY 11 2006

Missouri Public
Service Commission

**AQUILA, INC.
SOUTH HARPER PEAKING FACILITY**

CONCEPT DESIGN PLAN

SUBMITTED TO THE CITY OF



OCTOBER 21, 2004

Sega Project No. 04-0112



Case No EA-2006-151



Project Description

Aquila, Inc., on behalf of its Missouri operating division, hereafter known as Aquila Networks Missouri (ANM) is planning construction of a new greenfield gas-fired simple cycle peaking plant to be located within its service territory. The facility will be located in Cass County, Missouri on a site that is being annexed into the City of Peculiar, Missouri. The Project will be directly interconnected to the ANM 161-kV and 69-kV electric transmission systems and one or more interstate natural gas pipelines.

The peaking plant will utilize three (3) gas-fired, single fuel, Lo NO_x, Siemens Westinghouse Model 501D5A Econopac Units nominally rated at about 120 MW ISO. The facility will include the Econopac equipment, adjacent switchyard with unit termination to a common bus, circuit switchers to allow isolation of an individual unit from the common bus, a substation including an initial breaker and a half configuration for integration with the transmission circuits, water service for domestic and fire system use, a metal-panel service building, coalescing fuel gas filtering equipment, collection systems for sanitary, equipment, storm water and drains, CEM and data reporting equipment for each unit, and balance-of-plant controls via a dedicated PLC.

The facility will be constructed on an approximately square 38-acre parcel being acquired by Aquila (total site 74 acres). Approximate elevation of the finished project will be 970' AMSL.

The facility is expected to be a summer peaking asset for dispatch by the Aquila Networks Missouri division.

Exterior Finish Color Scheme

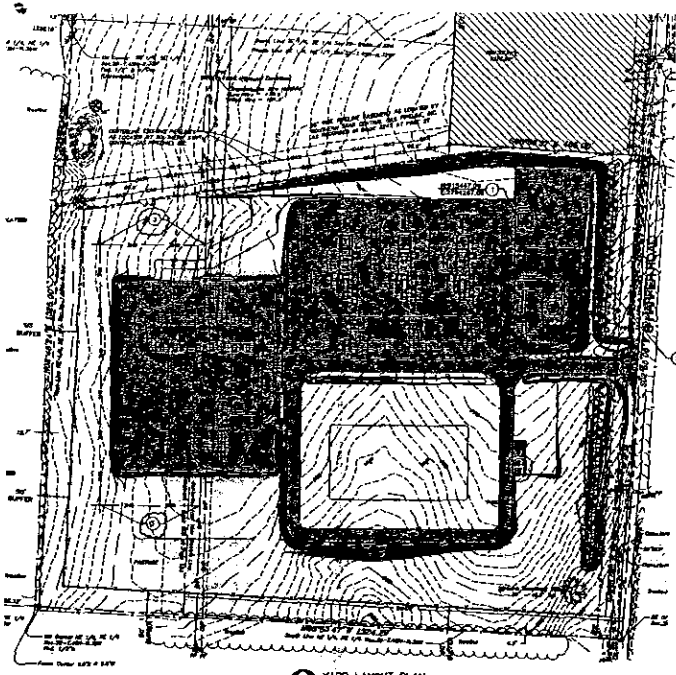
The Service Building and Evaporation Tank exterior finish will be matched with the Desert Tan color of the adjacent Southern Star Central Gas Pipeline Compressor Station. The three Siemens Westinghouse combustion turbine units are ANSI 61 Battleship Grey.

Signage Description

A facility sign will be installed adjacent to the entrance road from South Harper Road. The sign will have the Aquila logo, the name of facility, which is South Harper Peaking Facility, and will have the permanent address, per the specifications requested by the Cass County, MO, 9-1-1 Coordinator, Gayle Schmoll (see attached letter).

Terry S. Hedrick for Aquila
Name of Owner \ Developer

Terry S. Hedrick for Aquila 10-21-04
Signature of Owner \ Developer Date



11 YARD LAYOUT PLAN
SCALE IN FEET

- LEGEND**
- 4" POWER POLE
 - 4" WIRE LINE
 - OVERHEAD POWER LINE
 - LIQUID PIPELINE
 - FENCE
 - POWER ON SET SECTION CORNER INDICATIONS AS NOTED
 - SET 1/2" FROM BAR W/ PLASTIC CAP NO. 2580 UNLESS NOTED OTHERWISE
 - PROPOSED LINE
 - SET-UP ONLY LINE
 - EXISTING GASOLINE LINE
 - PROPOSED STEEL STRUCTURE
 - POWER POLE
 - PROPOSED FENCE
 - EXISTING DRAIN
 - PROPOSED UNDERGROUND ELECTRIC LINE
 - PROPOSED OVERHEAD ELECTRIC LINE
 - EXISTING ROCK SURFACE
 - SET LAYOUT

- CIVIL KEYNOTES**
1. ALL GAS PIPING SUPPLY AND ASSOCIATED WORK BY OTHERS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF ALL STATES.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF ALL STATES.

GENERAL NOTES

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5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES AND AGENCIES OF ALL STATES.

NO. 1	REVISION	DATE
1	ISSUED FOR BIDDING	10/1/84
2	ISSUED FOR PERMITS	10/1/84
3	ISSUED FOR PERMITS	10/1/84
4	ISSUED FOR PERMITS	10/1/84

Scale Only When Shown to Site

Soga
Engineers - Architects - Technicians
Design - Construction - Field Service

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P.O. Box 1000
Sausalito, California 94965-1000

Aquila

AQUILA INC.
SOUTH HARBOUR PEAKING FACILITY
CONTRACT 201 SITE PREP & SUBSTRUCTURES
YARD LAYOUT PLAN

DESIGNED BY	DATE
M. BLAKE	10/1/84
CHECKED BY	DATE
B. CASPER	9-3-84
DRAWN BY	DATE
AGL00106	04-112

CONTRACT FILE NO. 04112-1100

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