



**ACE
Cogeneration
Company**

Trona Operating Partners

July 2, 2009

DOCKET

86-AFC-1C

DATE JUL 02 2009

RECD JUL 07 2009

Mr. Jack Caswell
Compliance Program Manager
Siting Transmission & Environmental Protection Division
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814-5512

RE: Use and Storage of Hydrogen at the ACE Cogeneration Facility (86-AFC-1C)

Dear Mr. Caswell,

ACE Cogeneration Facility uses hydrogen as a cooling medium for the generator. The hydrogen is sealed inside the generator by the shaft seals. The hydrogen gas pressure in the machine will gradually drop due to leakage or mixing with the sealing oil. Since pressure drop will cause excessive temperature rise or deterioration of purity, it is important to keep the pressure as specified in the plant procedures. As the gas pressure drops, hydrogen gas is replaced from the hydrogen 6-pack cylinders located in the hydrogen area onsite. (There are approximately 8 to 12 hydrogen 6-packs onsite at any time in this area with 1,170.00 cubic feet of hydrogen per 6-pack.) Typically, we use 1 hydrogen 6-pack per week.

There have been no changes in either the use or storage of hydrogen from the original permitting of ACE by the CEC in 1988.

Please call me at (760) 372-2113 ext. 120, if there are any questions.

Sincerely,

Steven T. Haleman
Day Operator

sth/acr

File: 4012-1

Cc: Dale Rundquist (CEC)