

DOCKET

11-SPPE-1

DATE FEB 09 2012

RECD. FEB 14 2012

**DECLARATION OF
GERALD R. (Gerry) BEMIS**

I, **Gerald R. (Gerry) Bemis**:

1. I am presently employed by the California Energy Commission in the **Engineering Office** of the Systems Assessments and Facilities Siting as an **Air Resources Supervisor I**.
2. A copy of my professional qualifications and experience is attached hereto and incorporated by reference herein.
3. I supervised preparation of the staff testimony on **Biological Resources Appendix - Nitrogen Deposition Analysis**, for the **Xeres Ventures LLC, Santa Clara SC-1Data Center, Phase 2 (11-SPPE-01)** based on my independent analysis of the Application for Certification and supplements hereto, data from reliable documents and sources, and my professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and if called as a witness could testify competently thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated: February 9, 2012 Signed: Originally signed by
Gerald R. (Gerry) Bemis

GERALD R. (Gerry) BEMIS

Experience Summary

Over thirty years of experience in the energy field, including electric power plant facility siting, advanced electricity production technologies, regulatory compliance and modification; energy research and development; energy transportation technology and policy and analysis of regulatory issues.

Education

B.S.; Civil Engineering (CSU Sacramento, 1969)
M. Engr; Civil/Environmental Engineering (UC Davis, 1978).
Registered Professional Civil Engineer (California).

Experience (at California Energy Commission)

2009-present – Air Resources Supervisor, Systems Assessment and Facilities Siting Division. Supervise and lead the review and evaluation of power plant proposals, identify issues and resolutions; coordinate with other agencies; and prepare testimony, in the areas of:

- Air quality resources and potential impacts, and mitigation measures;
- Transmission Line Safety and Nuisance.

Coordinate with local air quality districts, the Air Resources Board (ARB) and U.S. Environmental Protection Agency (U.S. EPA).

2001-2009 – Developed and updated the statewide California Greenhouse Gas (GHG) emissions inventory, including training ARB to take over responsibility for the GHG inventory as part of Assembly Bill 32 (in 2007). Also developed a strategy to enable California's light-duty vehicle sector to do its "fair share" of emissions reductions to meet a 2050 goal of reducing statewide GHGs to a level 80 percent below 1990 levels.

1994-2001 – Managed Fuel Resources Office. This consisted of a staff of 23 professionals who performed various activities related to fuel supply adequacy, including natural gas for power plants and petroleum for transportation.

1991-1994 – Supervised Heavy-Duty Alternative Fuels Program. This group was responsible for the \$100 million Safe School Bus Program and provided funding for several clean fuel transportation technology research and grant activities.

1982-1991 – Supervised or performed technical analyses and support for several activities, including the Energy Technologies Status Report used to document the commercial availability of advanced technologies which were alternatives to conventional power plants during Energy Commission siting cases.

1977-1982 – Reviewed and evaluated large thermal power plant siting proposals, coordinating with the U.S. EPA, ARB and local air quality districts.