

utilities, large electric energy consumers, and the U.S. Department of Energy. I am also Professor Emeritus of Economics at the University of Chicago, where I teach energy economics.

3. In 2004, I led research and published a congressional report sponsored by the U.S. Department of Energy on the future of nuclear power in the U.S. A preliminary follow-up to this research was conducted in 2010. The work in both cases featured extensive research and an analysis of levelized cost of electricity estimates for alternative technologies, including renewables and other innovations such as clean coal.
4. I received a Ph.D. in Economics from the University of Chicago, an M.A. in Economics from the University of Chicago, and a B.A. in Economics from American University. A copy of my *curriculum vitae* is attached to this affidavit.
5. The purpose of my affidavit is to present information on clean coal technologies in response to the Illinois Power Agency's ("IPA") proposal, presented as part of its 2012 Power Procurement Plan ("Plan") that was filed on September 28, 2011, to seek proposals for up to 250 MW of electricity generated by advanced clean coal technologies that capture and sequester carbon dioxide emissions.¹
6. RCF has conducted an analysis under my direction and control of the levelized cost of energy for various generation types, including advanced clean coal with carbon sequestration and capture. The results of this analysis are contained in a Report on Costs of Clean Coal ("Report") dated October 3, 2011, attached to this affidavit.

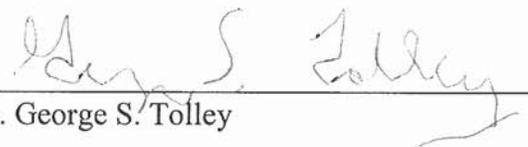
¹ Plan, §4.1.

7. As explained in the Report, the main findings from the analysis are:
- Estimates of the levelized cost of electricity (LCOE) for clean coal show current clean coal technologies to be one of the most expensive new generation technologies on the horizon.
 - Because clean coal is still in the research and development stage, there is considerable uncertainty about its technological performance.
 - There is no climate legislation in place for control of greenhouse gas emissions which would have the potential for raising the costs of alternatives to clean coal above clean coal costs. When such legislation will be enacted, or if it will be enacted at all, is highly uncertain.

* * *

8. This completes my affidavit.

FURTHER AFFIANT SAYETH NOT.



Dr. George S. Tolley

SUBSCRIBED AND SWORN to before me
this 3rd day of October, 2011



Notary Public

