

Docket No. 7156
Exhibit UPC-Cross- PG5
Admitted: _____

Attachment A.UPC:UHS/RPI.2-2.8

**NEW YORK STATE BOARD ON ELECTRIC
GENERATING SITING AND THE ENVIRONMENT**

**Case 00-F-1522 In the Matter of the Application of Astoria
Generating Company, L.P. for a Certificate
of Environmental Compatibility and Public
Need to Construct and Operate a 1,816
Megawatt Natural Gas-Fired Combustion
Combined Cycle Turbine Electric
Generating Plant in New York City,
Borough of Queens, New York**

**AFFIDAVIT OF
PETER H. GULDBERG**

_____)
COUNTY OF _____)ss.:

PETER H. GULDBERG, being duly sworn, deposes and says:

1. I make this affidavit for the purpose of adopting, as my sworn testimony in the above-captioned proceedings, the document consisting of sixteen (16) pages, exclusive of the cover and curriculum vita, entitled "Direct Testimony of Peter H. Guldberg" prepared October 2001.
2. I have no corrections to my testimony.
3. The answers to the questions contained in my testimony are true and correct to the best of my knowledge, information and belief, and I adopt the testimony as my sworn testimony in these proceedings.

PETER H. GULDBERG

Sworn to before me this
____ day of March, 2002

Notary Public

GULDBERG

1 A. DEP requested that the Applicant identify those sensitive receptors where
2 operation of the Repowering has a significant impact (defined as a 3 dBA increase
3 in the nighttime L_{cq}), and, for any such receptors, then propose mitigation to
4 ensure an interior sound level of 45 dBA, a level necessary to prevent sleep
5 disturbance and activity interference. Since a typical building in a cold climate
6 state (such as New York) with its windows open for ventilation provides 17 dB of
7 shielding from outside sounds, this standard equates to an outdoor sound level
8 limit for the Repowering operations of 62 dBA, but only at those receptors which
9 would experience a significant impact. This noise design goal only applies to
10 receptors 2-5, those representing residences and schools.

11 Q. How was the modified CNR analysis conducted?

12 A. The modified CNR method was used to assess potential noise impacts of both
13 Repowering construction and operation at the noise sensitive locations, receptors
14 1-6. This methodology takes into account many factors including the expected
15 sound levels from the Repowering, the existing sound levels, character of the
16 noise (e.g., tonal, impulsive), duration, time of day and year, and subjective
17 factors such as community attitude and history of previous exposure.
18 The Modified CNR method is started by plotting the octave band sound pressure
19 level spectrum of the Project on a family of curves to determine the Noise Level
20 Rank, a lower-case letter. The Noise Level Rank is the letter designating the