

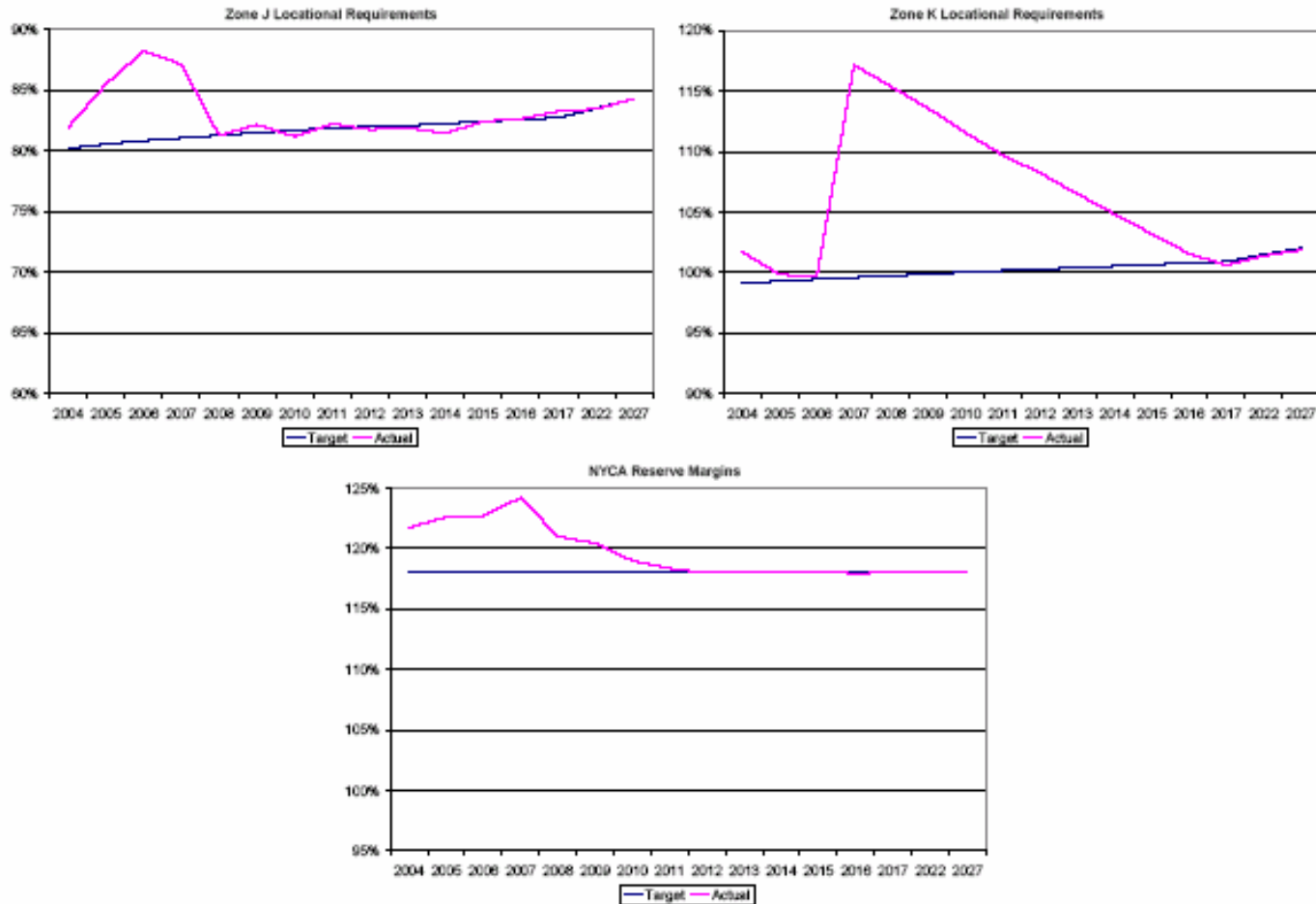
Revised Case IIc

Adjustment of Net Revenues from
Energy Used to Offset the NYC
and RoS ICAP Demand Curve

Norman Mah – Con Edison
ICAPWG - 8/27/04

Problem

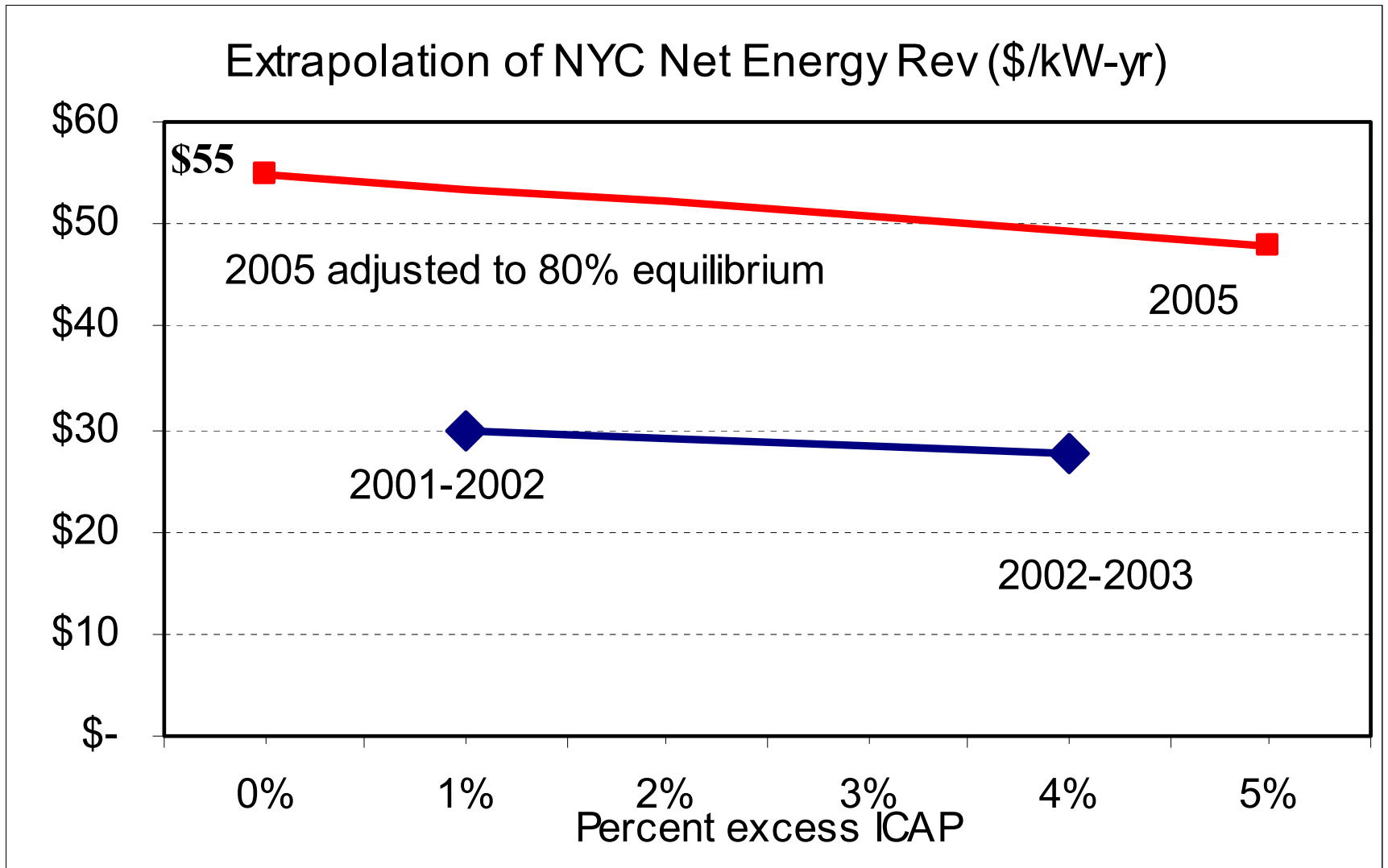
Net revenues calculated by Levitan are too small because capacity modeled in study is above equilibrium point



Proposal for NYC

Extrapolate Net Energy Revenues at 80% equilibrium point using historic excess capacity as reported in Locational Installed Capacity Requirement Study and Net Revenues from Patton State of the Market Study.

Extrapolated NYC Net Revenue



NYC – Case IIc Results

Extrapolated to 80%

Levelized capacity revenue requirement

$$= \$176 - \$55 = \boxed{\$121}$$

Proposal for RoS

Use Historic Ratio of RoS to NYC Net Revenues* from Energy as Adjustment Factor

Adjustment for Excess:

$$\left\{ \frac{\text{Avg RoS NR @ 125\%}}{\text{Avg NYC NR 81\%}} \right\} \times \text{LAI NYC NR @ 80\%}_{(\text{LM6000})} =$$
$$= \text{Future RoS NR @ 125\%}_{(\text{LM6000})}$$

Convert LM6000 to 7FA:

$$\text{Future RoS NR}_{(\text{LM6000})} \times \left\{ \frac{\text{LAI}_{7\text{FA}}}{\text{NR}_{\text{LM6000}}} \right\} = \text{Future RoS NR}_{(\text{7FA})} @ 125\%$$

* Net Revenues from Energy are referred to herein as NR or Net Revenues

Calculations

Use Historic Net Revenues from Patton State of the Market Report

2002-2003	\$/MW-hr
NYC – Vernon	\$39.85
<u>NYC – 345kV</u>	<u>\$17.60</u>
NYC – Avg	\$28.71
RoS – Capital *	\$8.65

Historic Ratio = 0.3

LAI NYC NR = \$55
@ 80% (LM6000)

LAI NR $\frac{7FA}{LM6000} = \frac{6}{7}$

* Excluded West region as a viable site for GT entry

RoS - Case IIc Results

Adjustment for Excess

$$\text{Future RoS Net Revenues (LM6000)} = 0.3 \times \$55 = \boxed{\$16.50}$$

Convert to 7FA @ 125%

$$\text{Future RoS Net Revenues (7FA)} = \$25 \times 6/7 = \boxed{\$14.15}$$

Given that @ 130% NR = \$7 and extrapolating to 118%

$$\text{Future RoS NR} = \boxed{\$22.76}$$

Case IIc for RoS (calculated at 118% reserve margin)

$$\text{Levelized capacity revenue requirement} = \$116 - \$22 = \boxed{\$94}$$