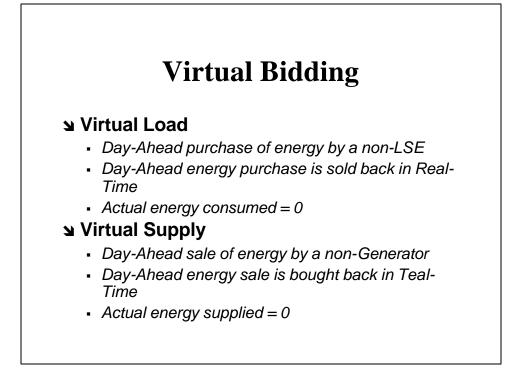
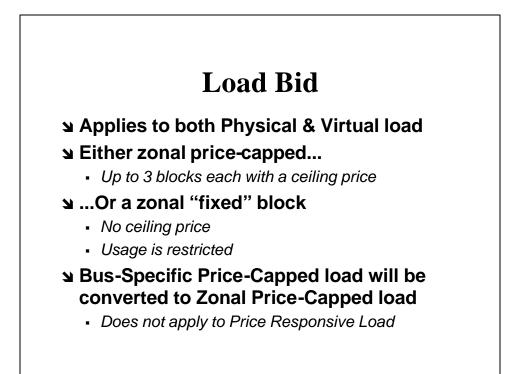
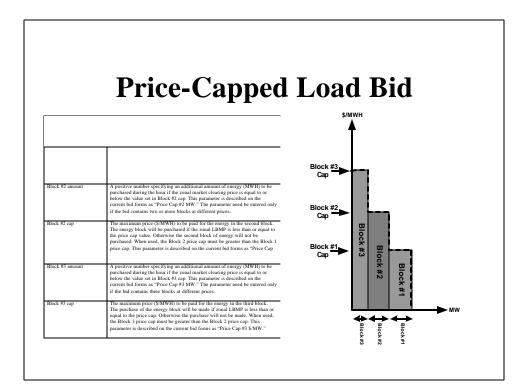
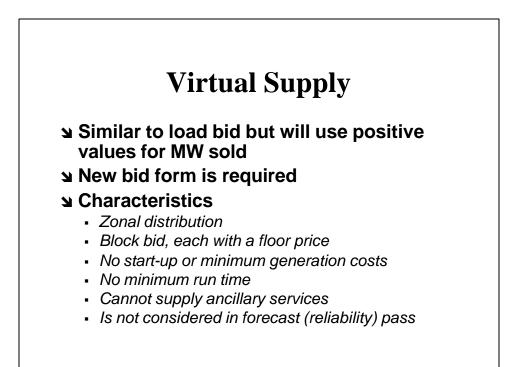
## Report of the Virtual Bidding Task Force to the Business Issues Committee

June 21, 2001

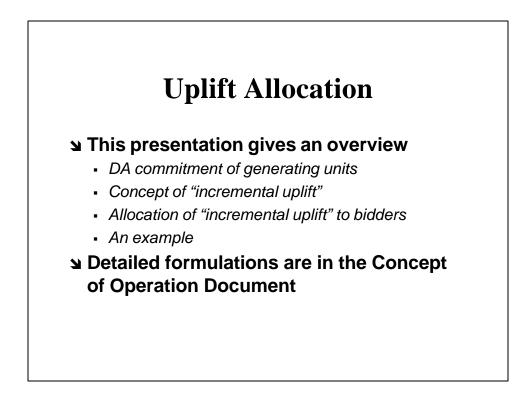


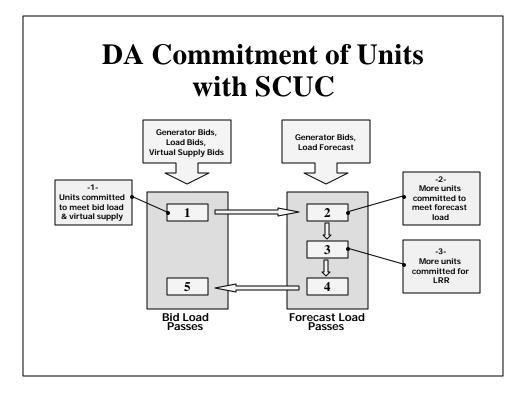


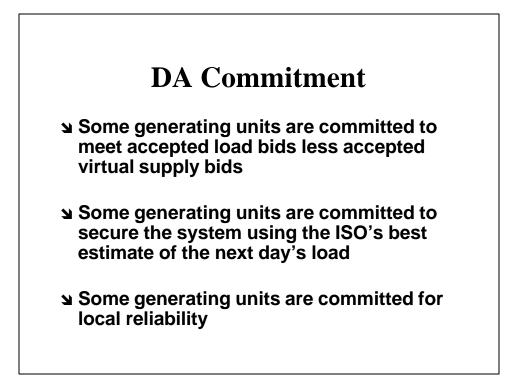


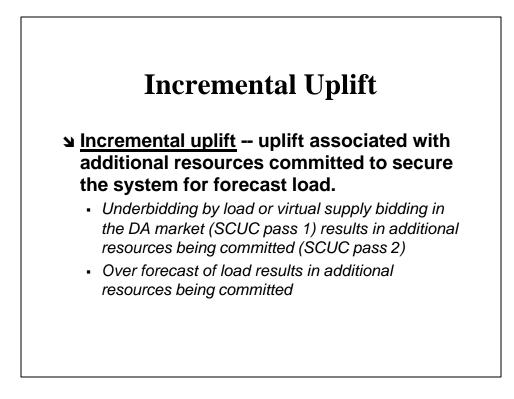


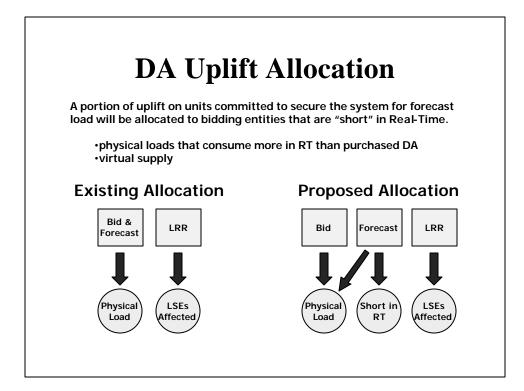
|                 | Virtual Suppl   | y Bid                           |
|-----------------|---|---------------------------------|
|                 |   | € \$/MWH                        |
| Block #1 amount | A positive number specifying the amount of energy (MWH) to be sold during<br>the hour if the zonal market clearing price is equal to or above the value set in<br>Block #1 cap.   | B                               |
| Block #1 cap    | The minimum price (\$MWH) that will be accepted for the energy in the first<br>block. The first energy block will be available for sale if the zonal LBMP is<br>greater than the price cap. If the price equals the price cap, it is available for<br>sale but might not all be scheduled. Otherwise the energy block will not be<br>sold.  | Block #3<br>Cap B B #2          |
| Block #2 amount | A positive number specifying an additional amount of energy (MWH)<br>available for sale during the hour if the zonal market clearing price is equal to<br>or above the value set in Block #2 cap. The parameter need be entered only if<br>the bid contains two or more blocks at different prices.   | Block #2<br>Cap                 |
| Block #2 cap    | The minimum price (\$MWH) that will be accepted for the energy in the<br>second block. The second energy block will be available for sale if the zonal<br>LBMP is greater than or equal to the price cap. Otherwise the energy block<br>will not be sold. When used, the Block #2 price cap must be greater than the<br>Block #1 price cap. | Block #1                        |
| Block #3 amount | A positive number specifying an additional amount of energy (MWH)<br>available for sale during the hour if the zonal market clearing price is equal to<br>or above the value set in Block #3 cap. The parameter need be entered only if<br>the bid contains three blocks at different prices.   | Cap                             |
| Block #3 cap    | The minimum price (\$/MWH) that will be accepted for the energy in the third<br>block. The sale of the energy block will be made if zonal LBMP is greater<br>than or equal to the price cap. Otherwise the sale will not be made. When<br>used, the Block #3 price cap must be greater than the Block #2 price cap.                         | → Block #<br>Block #<br>Block # |

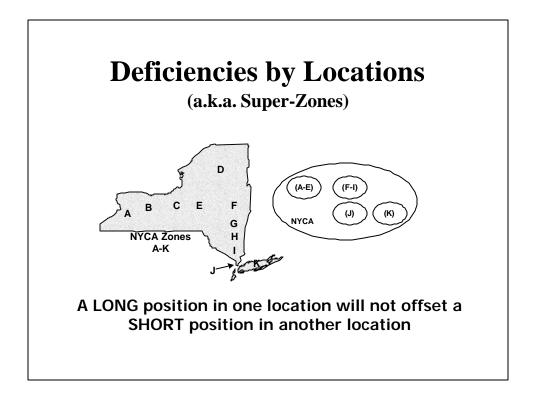


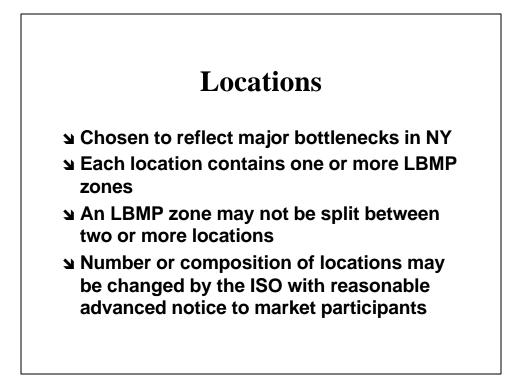


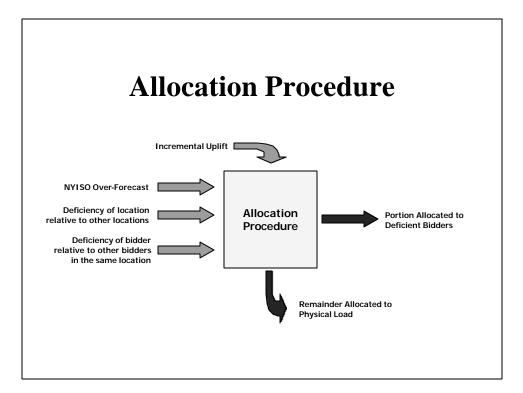


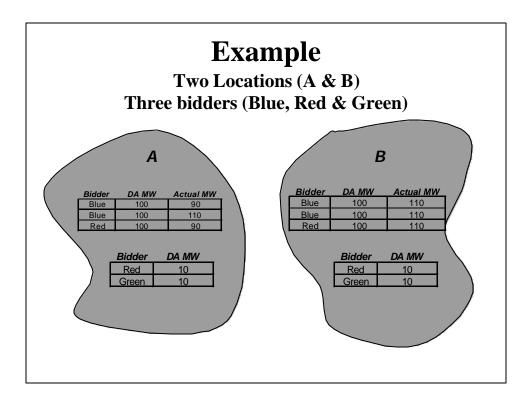


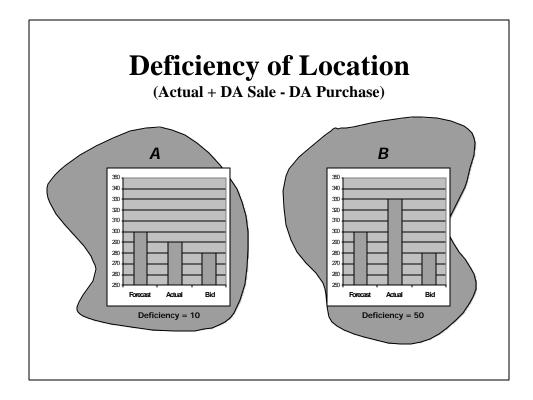


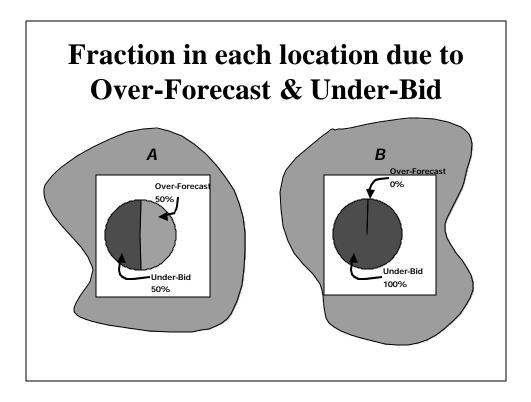


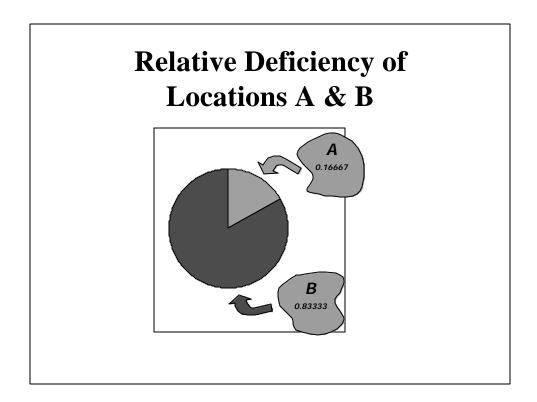


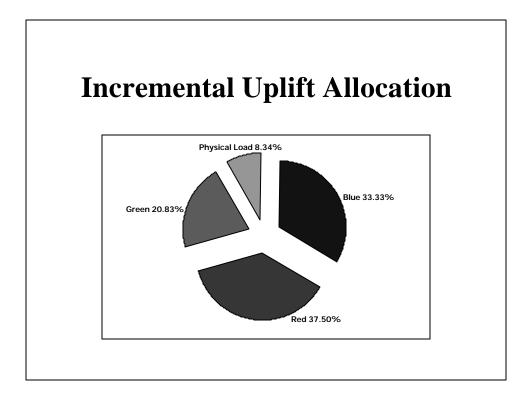


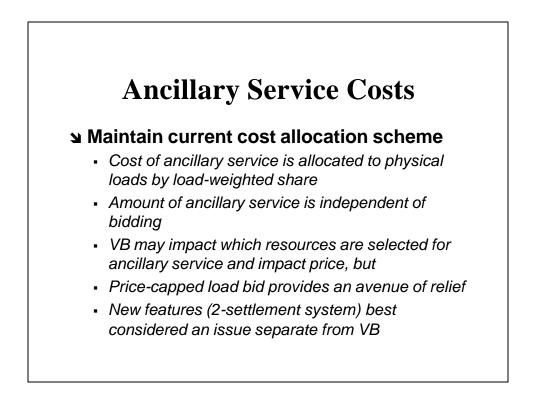


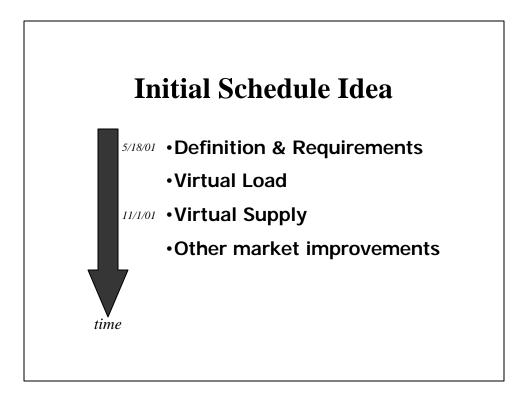


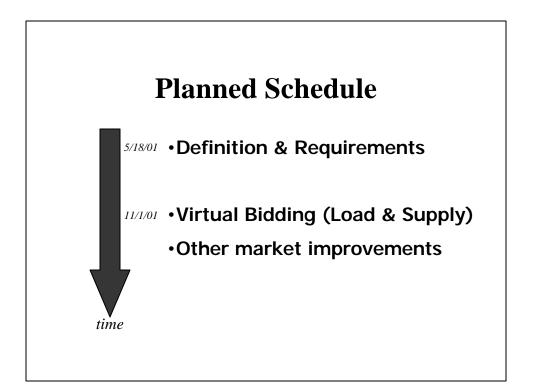










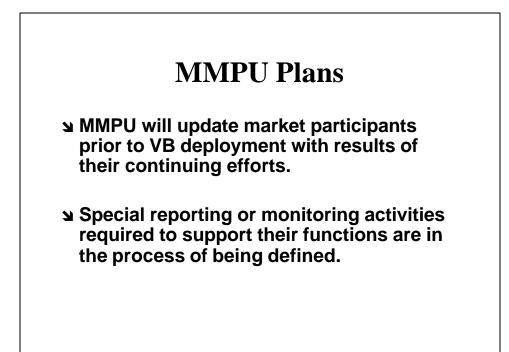


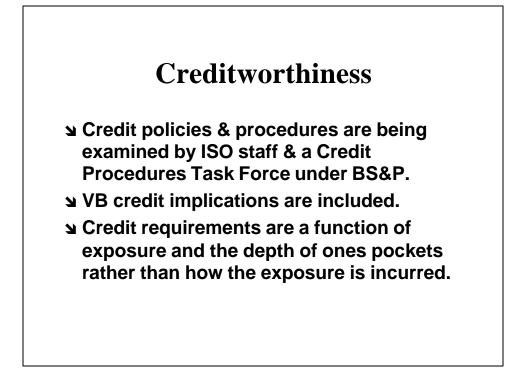
## **Market Monitoring**

- Have investigated many bidding scenarios and are continuing to investigate others
- Price-capped load bidding provides protection against potential abuse of VB
- Existing MM plan provides the means to deal with abuse. No additional authority appears to be required



- ▶ Use of virtual supply to circumvent mitigation or manipulate guarantee payments -- deterred by the new uplift allocation procedure.
- **Δ** Combination of VB & TCC Rents:
  - MMPU is implementing new tools to monitor the impact of any bid on TCC rents.
  - Manipulation of TCC rents is difficult because VB is only allowed on a zonal basis





## **Initial Limits on VB Volume?**

- Design of VB specifically does not limit participants, limits are not required
- Previous attempt to design a "limited" VB function was very complicated.
- **v** No apparent need (or benefit) identified.
- Not included in the plan and will definitely impact schedule.
- Not recommended by ISO staff.