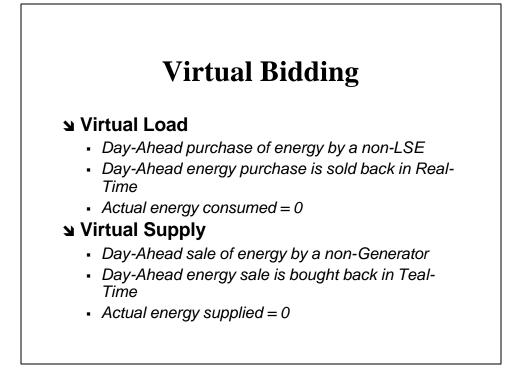
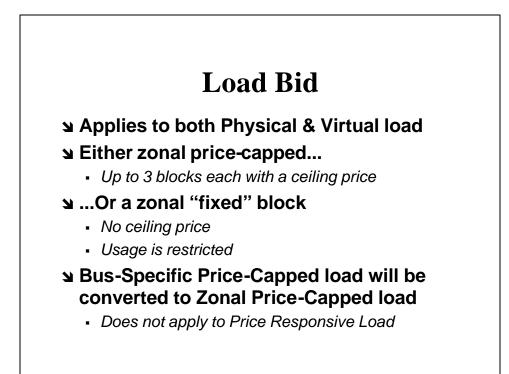
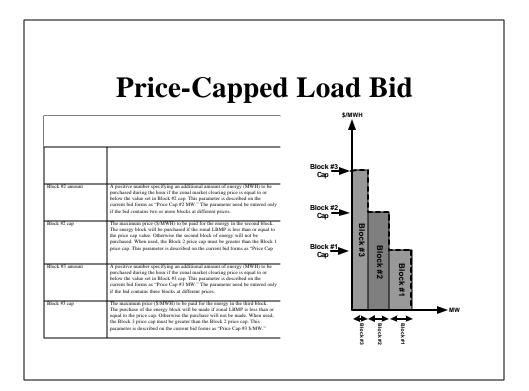
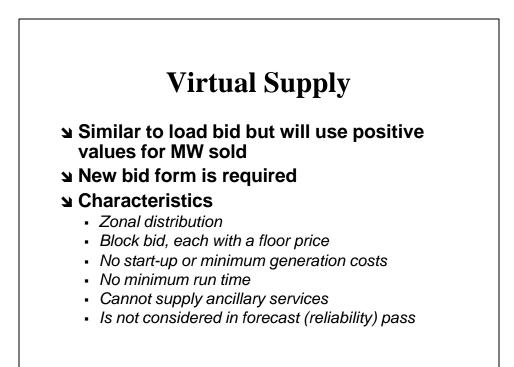
## Report of the Virtual Bidding Task Force to the Business Issues Committee

June 21, 2001

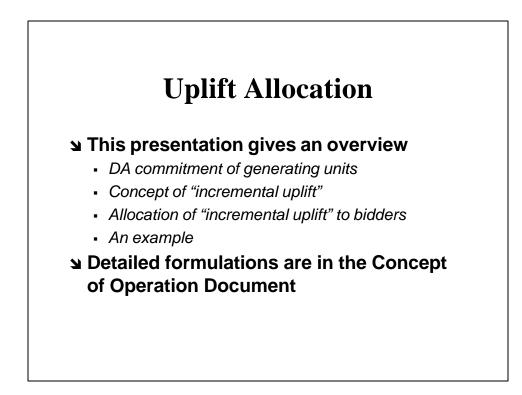


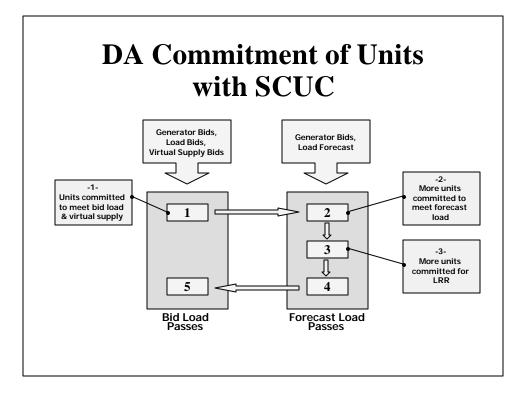


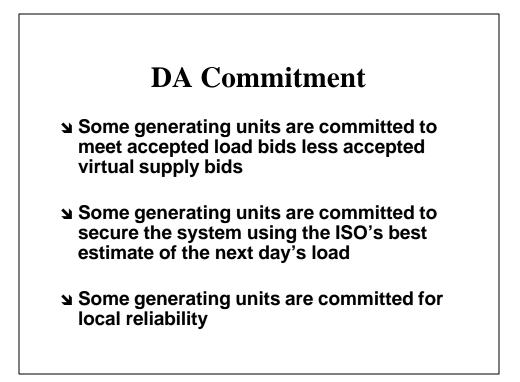


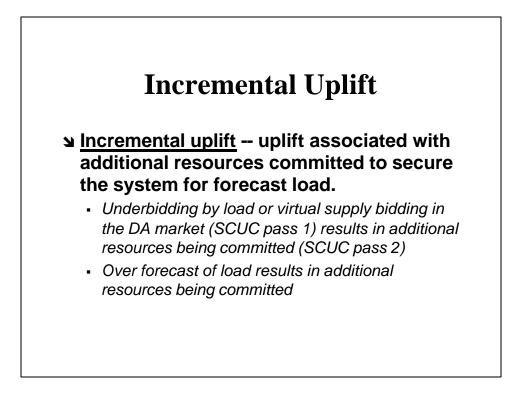


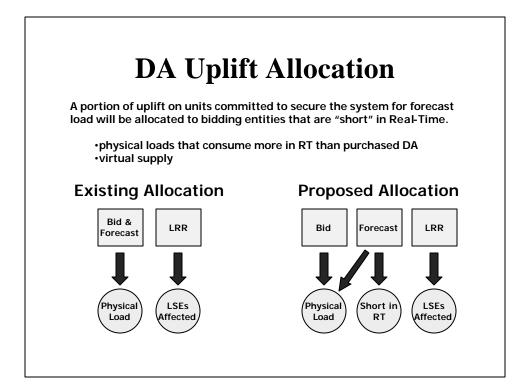
	Virtual Suppl	y Bid
		€ \$/MWH
Block #1 amount	A positive number specifying the amount of energy (MWH) to be sold during the hour if the zonal market clearing price is equal to or above the value set in Block #1 cap.	B
Block #1 cap	The minimum price (\$MWH) that will be accepted for the energy in the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

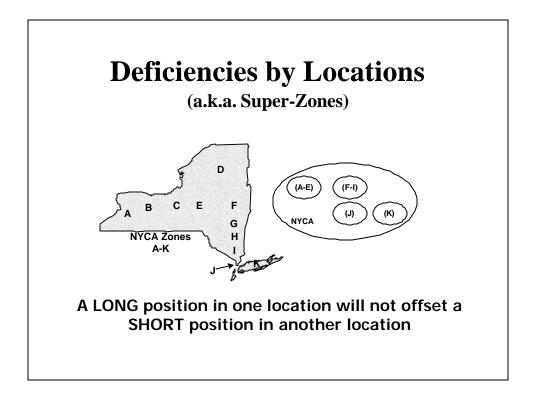


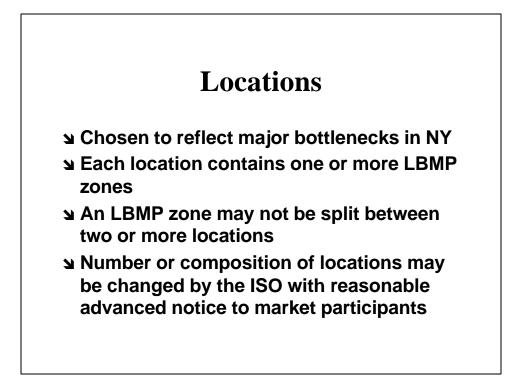


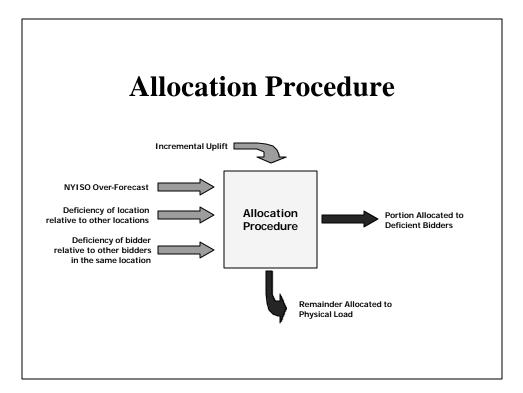


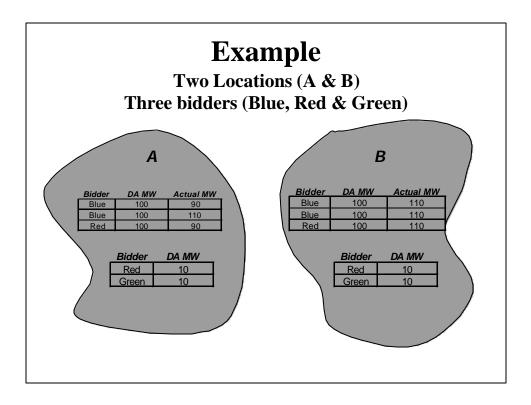


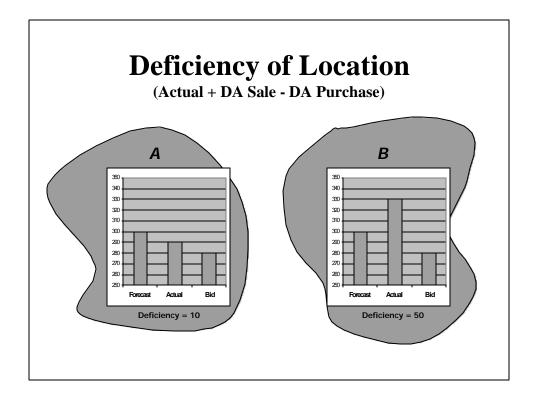


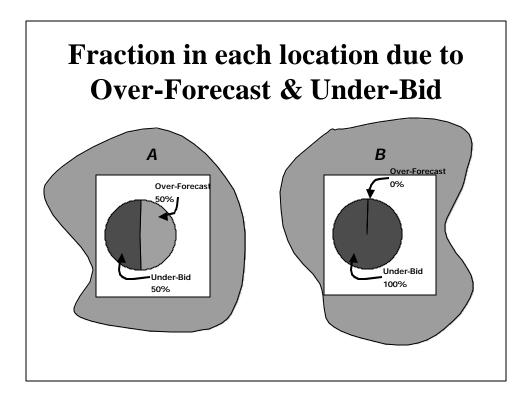


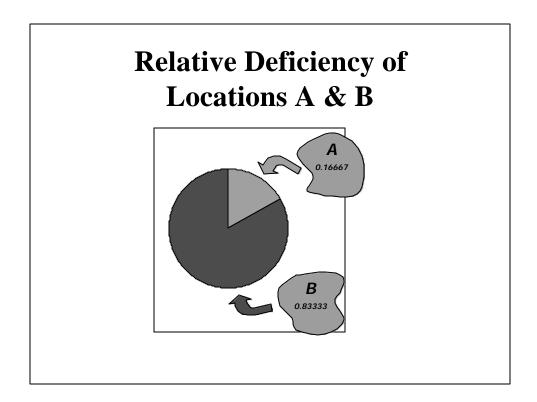


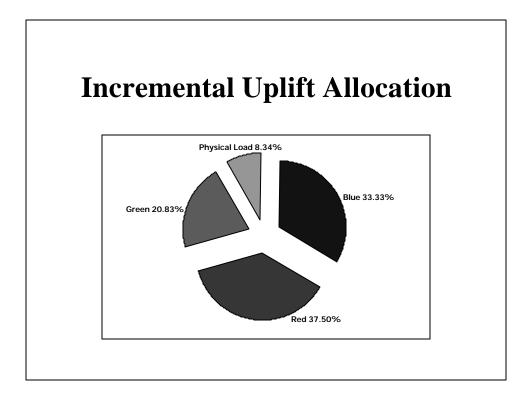


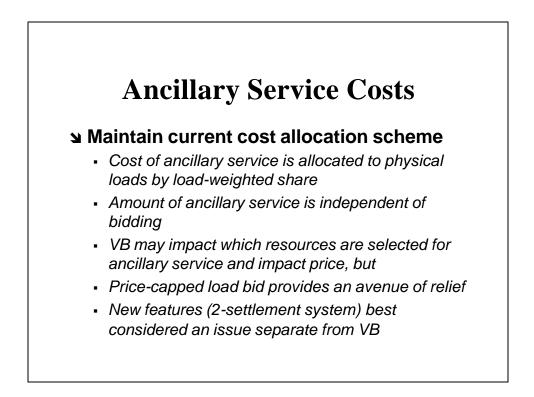


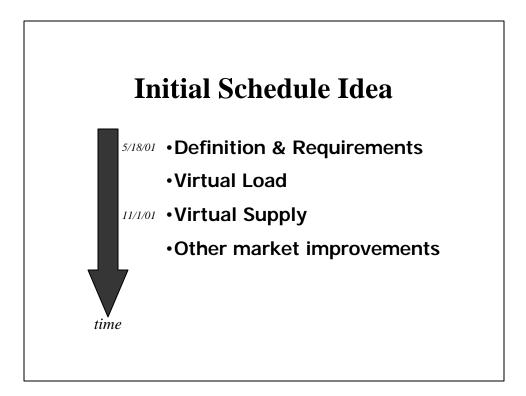


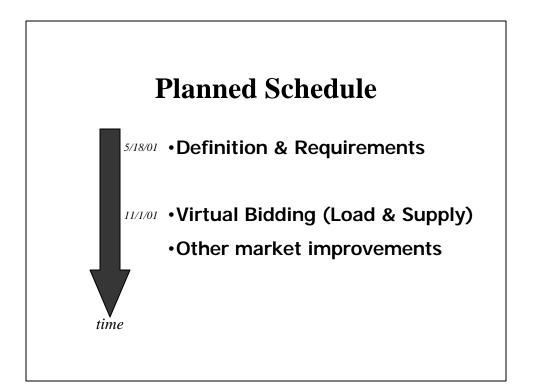










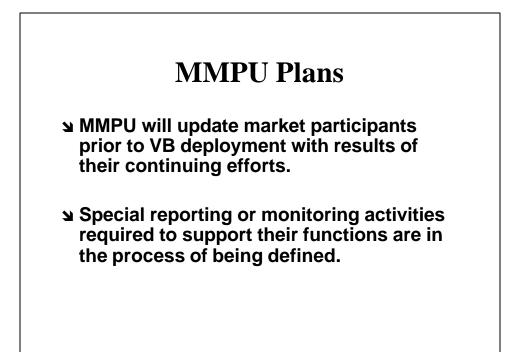


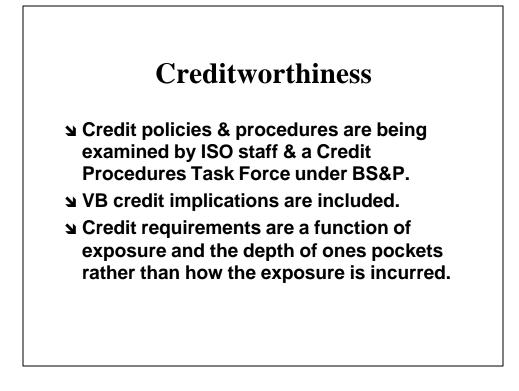
## **Market Monitoring**

- 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.