

SUMMARY OF EFFORT REQUIRED TO COMPLETE ANCILLARY SERVICES REDESIGN SOFTWARE FUNCTIONALITY

Below is a summary showing numerical representations of the relative amounts of effort required to complete each of the Ancillary Services redesign software enhancements already approved or under consideration by the Board for implementation this summer.

The Skills and Effort that is required to implement the items already approved by the ISO Board and the new Ancillary Service Design Elements are divided into three groups based on the people who will do the work:

1. Balance Energy and Ex-Post Price Calculation (BEEP)
2. The Scheduling Infrastructure and Scheduling Applications (SI/SA) System, for scheduling and bidding.
3. The Balance of Business System (BBS), for settlement and billing.

The items within each column utilize roughly the same resources and are roughly substitutable for each other. Incorporated in the numerical values is an assumption that the ISO will delegate, to the extent possible, work to consultants/vendors, so that the work depicted is only the remaining staff work.

#	Projects	Remaining "Bottleneck Effort"		
		<i>BEEP</i>	<i>SA/SI System</i>	<i>BBS System</i>
1	<i>Y2K</i>		150	70
2	<i>Metered Demand/No Pay</i>		90	230
3	<i>TO Debit</i>		30	20
4	<i>FTR</i>		300	80
5	<i>Rational Buyer</i>		75	75
6	<i>Replacement Reserve Allocation & Uninstructed Deviation</i>		100	200
7	<i>Electronic Dispatch (BEEP)</i>	320	220	0
8	<i>Reg Up/Down</i>		60	60
9	<i>Inter-SC Trade for Ancillary Service</i>		175	0
10	<i>Product Specific Simultaneous Auction</i>		175	0
	Total	320	1375	735
	Available Bottleneck Effort for completion by June 1st, 1999	320	1125	660

Note: Rational Buyer will utilize ISO resources. The Settlement piece of the Rational Buyer requires Vendor resource as shown in the table above.