RISK & UNCERTAINTY ANALYSIS BRIEFING

RESOURCE PLANNING

October 1997

Schedule 2-1

Summary of Sensitivity Analysis

Sensitivity analysis was performed to determine the critical uncertain factors that may impact resource planning decisions. Each of the factors investigated were varied individually while all other parameters were held constant. Optimal expansion plans were developed for each of the following uncertain factors:

- Increased Forced Outage Rates of Existing Base Load Units
- Reduced Economy Coal Purchases
- High and Low Construction and O&M Costs and Escalation Rates
- High and Low Fuel Costs
- High and Low SO_2 Allowance Costs
- No Probable Environmental Costs

The evaluation indicates that the expansion plan is relatively insensitive to all uncertain factors, except for probable environmental costs. If no probable environmental costs are included, the least cost plan involves the addition of combustion turbines instead of combined cycle units in 2002. Since the selection of the type of unit to be built in 2002 is a near term decision, it was included in the risk analysis.

The results also showed that the expansion plan is relatively insensitive to fuel prices. However, since fuel costs are a large component of the total cost, it was also included in the risk analysis.

Optimized Expansion Plans For Various Sensitivities
(Probable Environmental Costs Included)

	Base	Sensitivity								
Year	Nominal Conditions	Increased F.O.R	Reduced Economy Purchases	High Const. and O&M Costs	Low Const. and O&M Costs	High Fuel Costs	Low Fuel Costs	High SO2 Costs	Low SO2 Costs	WOPEC Costs
1997	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW	Sx IMP-16 MW PP-140 MW
1998	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW	PP-80 MW CIPS PP-150 MW
1999	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW	2-KGR-7 MW TS IMP-80 MW PP-80 MW
2000	PP-100	PP-100	PP-100	PP-100	PP-100	PP-100	PP-100	PP-100	PP-100	PP-100
2001	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW	PP-190 MW
2002	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 2 CC-300 MW	Extend AP&L 6-KGR-8 MW 4 CT-520 MW
2003										1 CT-130 MW
2004	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	
2005	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW
2006										1 CT-130 MW
2007	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CT-130 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CC- 300 MW	1 CT-130 MW	
2008				1 CC -300 MW					1 CC- 300 MW	1 CC- 300 MW
2009	1 CC -300 MW	1 CC -300 MW	1 CC -300 MW		1 CC -300 MW	1 CC -300 MW	1 CC -300 MW	1 CC -300 MW		1 CT-130 MW
2010			Extra Joppa	1 CC -300 MW					1 CT-130 MW	1 CT-130 MW Extra Joppa
2011						Extra Joppa			1 CT-130 MW	
2012	1 CT-130 MW	1 CT-130 MW	1 CC-300 MW		1 CT-130 MW	1 CT-130 MW	1 CC- 300 MW	1 CT-130 MW		1 CT-130 MW
2013	1 CT-130 MW	1 CT-130 MW		1 CT-130 MW	1 CT-130 MW	1 CT-130 MW		1 CT-130 MW	1 CT-130 MW	1 CT-130 MW
2014	Extra Joppa	Extra Joppa			Extra Joppa			Extra Joppa	Extra Joppa 1 CT-130 MW	
2015	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW	1 CT-130 MW		1 CT-130 MW
CT (MW)	520	520	260	520	520	520	260	520	780	1430
CC (MW)	1500	1500	1800	1500	1500	1500	1800	1500	1200	600
Upgrades (MW)	111	111	111	111	111	111	111	111	111	111
Total - Supply (MW)	2131	2131	2171	2131	2131	2131	2171	2131	2091	2141
DSM (MW)	0	0	0	0	0	0	0	0	0	0
Total (MW) - 2014	2131	2131	2171	2131	2131	2131	2171	2131	2091	2141

SX IMP	Sioux 16 MW Improvement
PP	One Year Power Purchase
2 KGR	2 Keokuk Generator Rewinds 6.8 MW Capacity Equivalence
6 KGR	6 Keokuk Generator Rewinds 8.3 MW Capacity Equivalence
CIPS PP	150 MW Purchase from CIPS 1998-2005
Extend AP&L	Extend The Present Purchase Contract With AP&L From 2002 to 2008
CC	Combined Cycle-300 MW
CT	CombustionTurbine-130 MW
TS IMP	Taum Sauk Runner Replacement - 80 MW
DSM	Demand-Side Management Capacity Equivalence
Extra Joppa	Increased Utilization Of Joppa Energy

Summary of the Risk Analysis

Based on the results of the sensitivity analysis performed with EGEAS, environmental regulations appears to be the key uncertainty which can impact the preferred resource plan. By its very nature, load forecast uncertainty could have the effect of significantly changing the timing of the preferred resource plan. In addition, due to the selection of gas fueled technologies as the primary resource options in the post 2000 period, fuel cost was included as an additional uncertainty to consider.

The major resource decisions faced by the Company appear to be whether to include DSM in the resource plan and what supply-side resources to select in the early and late 2000's time period, combustion turbines (CT) or combined cycle (CC) units.

An analysis was performed for an expansion with and without the set of DSM programs which had been determined to be cost effective. For each of these DSM alternatives, five supply-side expansion strategies were considered, an all CT expansion, an all CC expansion, a mixture of both CT and CC units, an expansion of CC units in the early 2000's followed by CT units in the late 2000's, and finally an expansion of CT units in the early 2000's followed by CC units in the late 2000's. These ten strategies were all evaluated under the uncertainty of environmental regulations, load forecast and fuel cost.

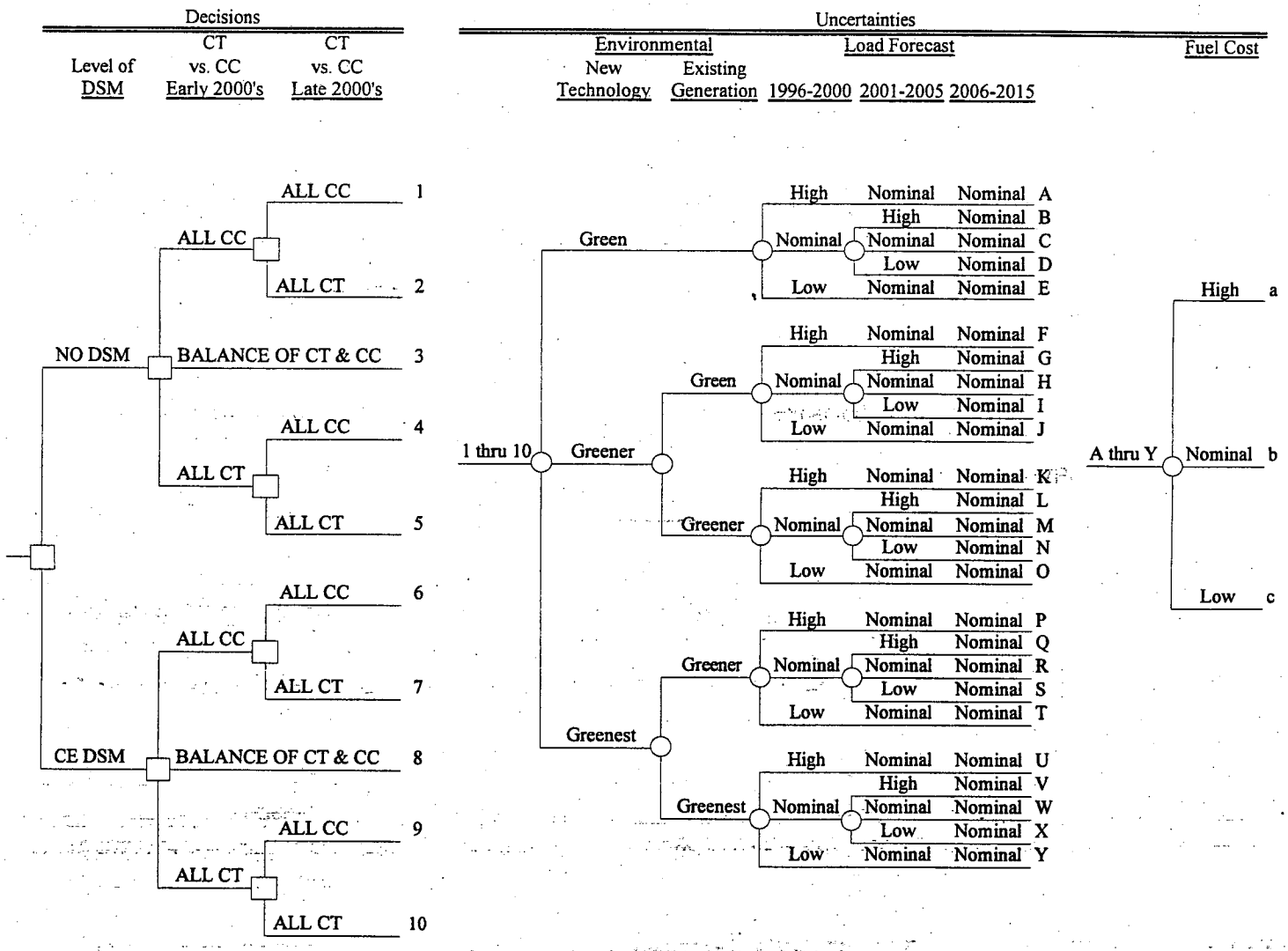
On the basis of expected values, the analysis indicates that the expansion plans which included DSM and CC units are preferred when PVRR was used as the evaluation criteria. When levelized rates was used, the expansion plans without DSM and with CC units are preferred. DSM programs offer a reduction in PVRR of approximately $80-$100 million but at a rate premium of 0.004-0.007 cents/kWh.

In addition to these expected value results, risk profiles, histograms, calculations of means and standard deviations were prepared for the various decisions described above. All of these methods are ways to describe the riskiness of the various decisions. An examination of all these results support the expected value results. The riskiest strategy is one which does not include DSM and relies on CT units exclusively during the early 2000's or over the entire planning period. Including DSM improves the economics somewhat, but it is still riskier than other resource strategies.

The following pages contain the supporting tables and figures for the discussion contained in the preceeding paragraphs.

Figure X-X

Risk Analysis Decision Tree



Probability Distributions of Uncertain Factors

	High	Nominal	Low
Forecasted Peak Growth Rate Probability	1.8% 15%	1.0% 70%	0.0% 15%
Environmental	Green	Greener	Greenest
Prob - New Tech	10%	80%	10%
Prob - Existing Gen	80%	15%	5%
Fuel Cost Probability	-- 25%	-- 50%	-- 25%

750 Endpoints

Expected Value Results

Strategy	Levelized System Rate (Levelized ¢/kWh)	Utility Cost (30 Yr PVRR - $ in Millions)	Total Resource Cost (30 Yr PVRR - $ in Millions)
W No DSM Programs			
All CC Expansion	6.975	26,081.56	26,081.56
All CC thru 2008; All CT after 2008	6.973	26,073.05	26,073.05
Balanced- Alternating CT and CC additions	6.973	26,071.70	26,071.70
All CT thru 2007; All CC after 2007	6.987	26,124.64	26,124.64
All CT Expansion	7.015	26,232.01	26,232.01
W 10 DSM Programs			
All CC Expansion	6.980	25,983.10	25,996.66
All CC thru 2008; All CT after 2008	6.980	25,984.85	25,998.41
Balanced- Alternating CT and CC additions	6.979	25,977.75	25,991.31
All CT thru 2007; All CC after 2007	6.991	26,024.02	26,037.58
All CT Expansion	7.019	26,127.40	26,140.97
DIFFERENCE FROM LOWEST COST PLAN:			
W No DSM Programs			
All CC Expansion	0.002	103.81	90.25
All CC thru 2008; All CT after 2008	0	95.30	81.74
Balanced- Alternating CT and CC additions	0	93.95	80.39
All CT thru 2007; All CC after 2007	0.014	146.89	133.33
All CT Expansion	0.042	254.26	240.70
W 10 DSM Programs			
All CC Expansion	0.007	5.35	5.35
All CC thru 2008; All CT after 2008	0.007	7.10	7.10
Balanced- Alternating CT and CC additions	0.006	0	0
All CT thru 2007; All CC after 2007	0.018	46.27	46.27
All CT Expansion	0.046	149.65	149.66

Expected Value of Perfect Information (EVPI)

Evaluation Criteria: Levelized Average System Rates — Expected Value: 6.973 ¢/kWh

Uncertainty	EVPI ¢/kWh
Future Environmental Costs	0.003
Load Forecast	0.003
Fuel Cost	0.000

Evaluation Criteria: Utility Cost — Expected Value: $25,977.75 Mil

Uncertainty	EVPI $ Millions
Future Environmental Costs	10.22
Load Forecast	8.14
Fuel Cost	0.18

Evaluation Criteria: Total Resource Cost — Expected Value: $25,991.31 Mil

Uncertainty	EVPI $ Millions
Future Environmental Costs	10.22
Load Forecast	8.14
Fuel Cost	0.18

Expected Value of Perfect Information (EVPI)

Evaluation Criteria: Levelized System Rates Expected Value: 6.973 ¢/kWh Preferred Strategy: No DSM; Balanced Expansion of CT & CC

Uncertainty	EVPI	Alternate Preferred Strategy
Future Environmental Costs	0.003	No DSM; All CT Early 2000's; All CC Late 2000's or No DSM; All CC Expansion
Load Forecast	0.003	No DSM; All CC Early 2000's; All CT Late 2000's or No DSM; All CC Expansion
Fuel Cost	0.000	

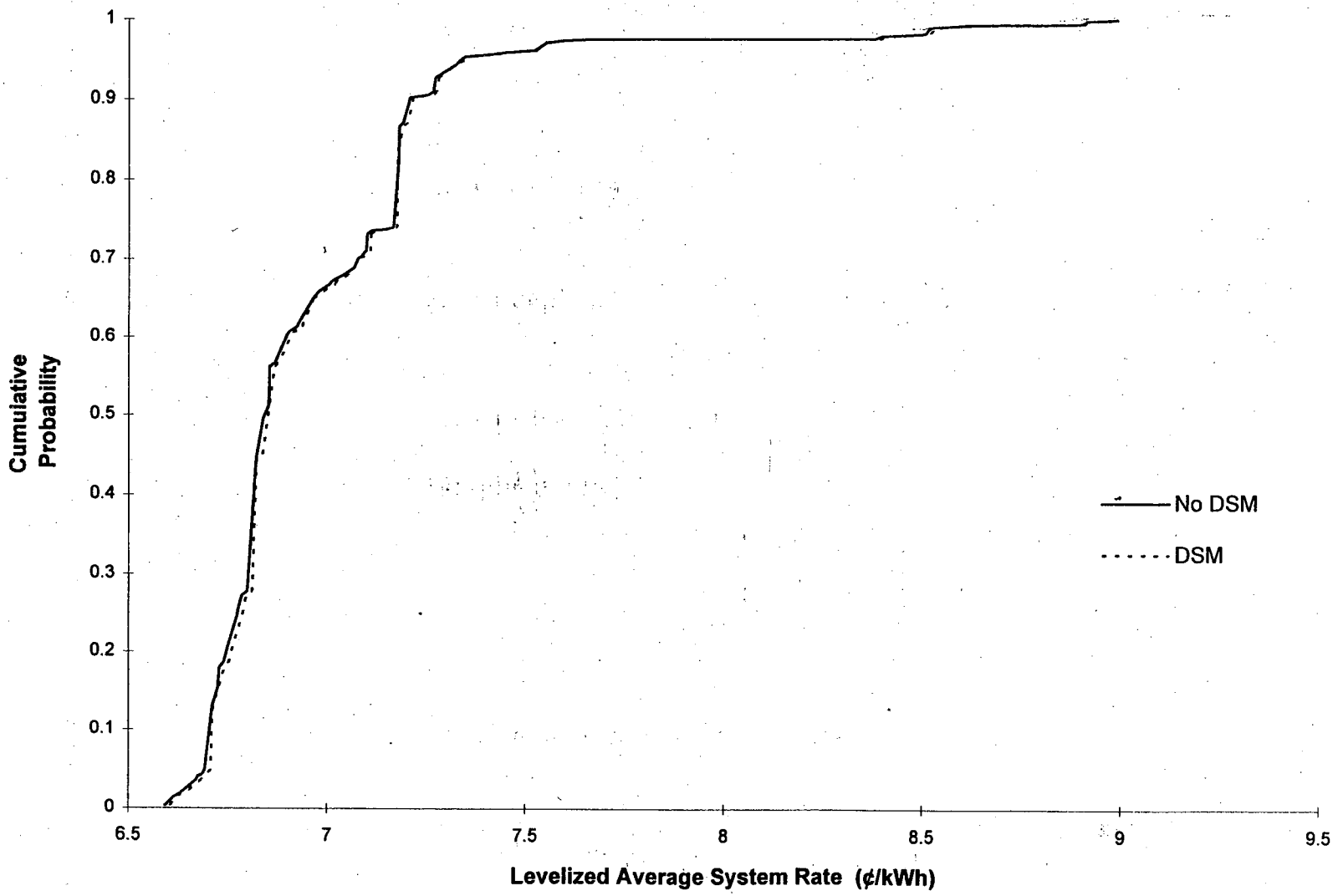
Evaluation Criteria: Utility Cost Expected Value: $25,977.75 Mil Preferred Strategy: With DSM; Balanced Expansion of CT & CC

Uncertainty	EVPI	Alternate Preferred Strategy
Future Environmental Costs	10.22	With DSM; All CT Early 2000's; All CC Late 2000's or With DSM; All CC Expansion
Load Forecast	8.14	With DSM; All CC Expansion
Fuel Cost	0.18	With DSM; All CC Expansion

Evaluation Criteria: Total Resource Cost Expected Value: $25,991.31 Mil Preferred Strategy: DSM20; All CT Expansion; Ven 5&6 Repower 2008

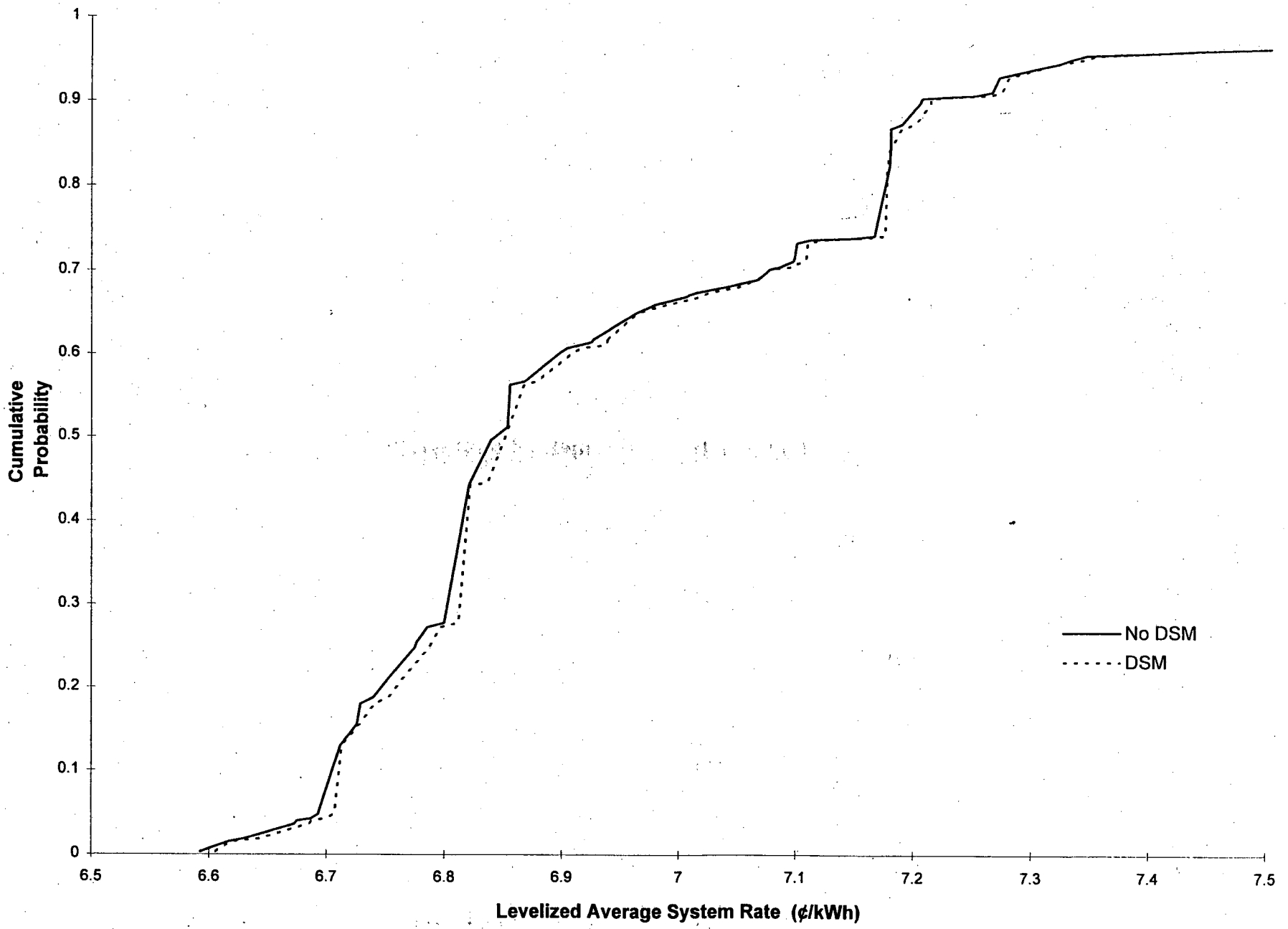
Uncertainty	EVPI	Alternate Preferred Strategy
Future Environmental Costs	10.22	With DSM; All CT Early 2000's; All CC Late 2000's or With DSM; All CC Expansion
Load Forecast	8.14	With DSM; All CC Expansion
Fuel Cost	0.18	With DSM; All CC Expansion

Levelized Average System Rates Risk Profile for DSM Decision



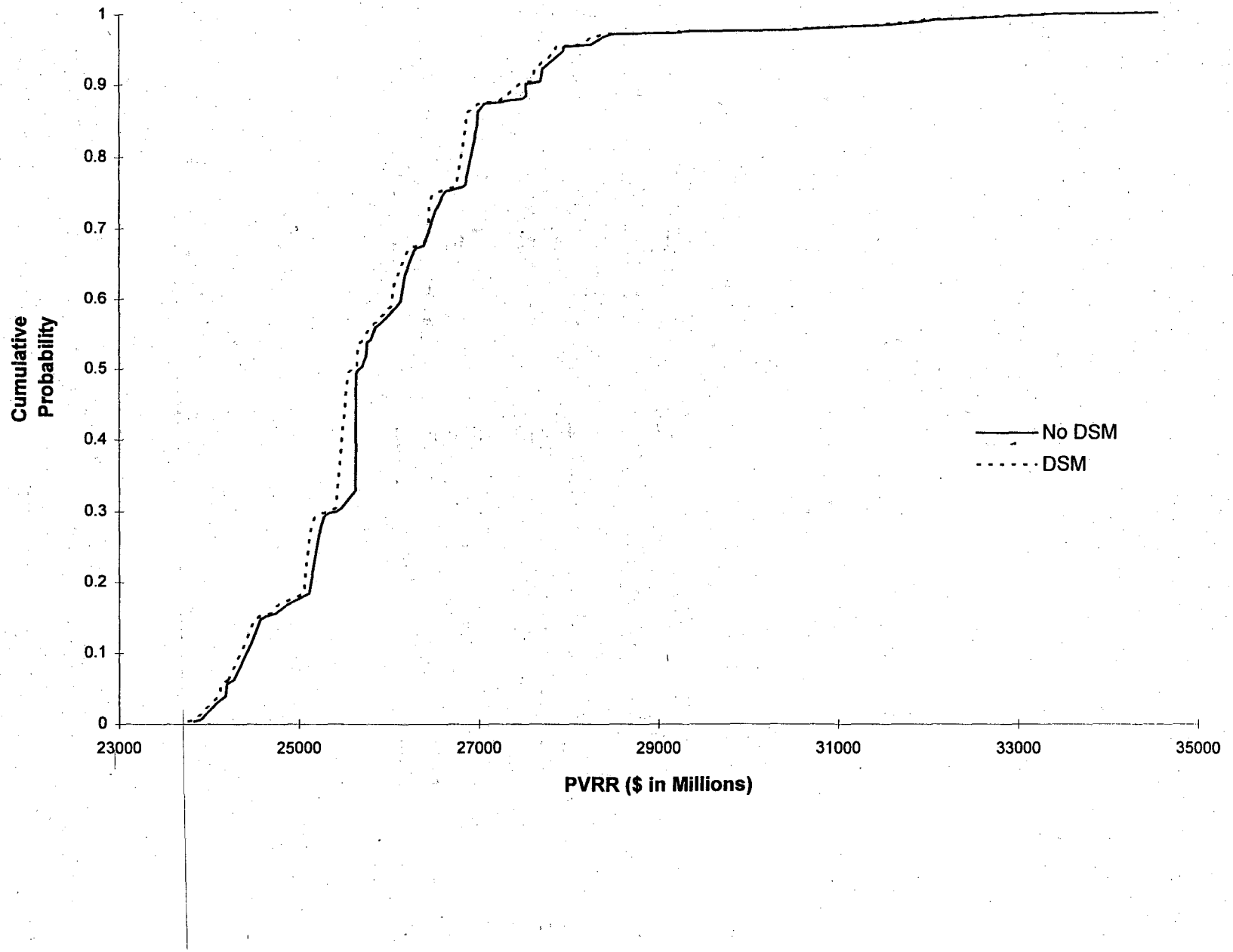
Schedule 2-9

Levelized Average System Rates Risk Profile for DSM Decision



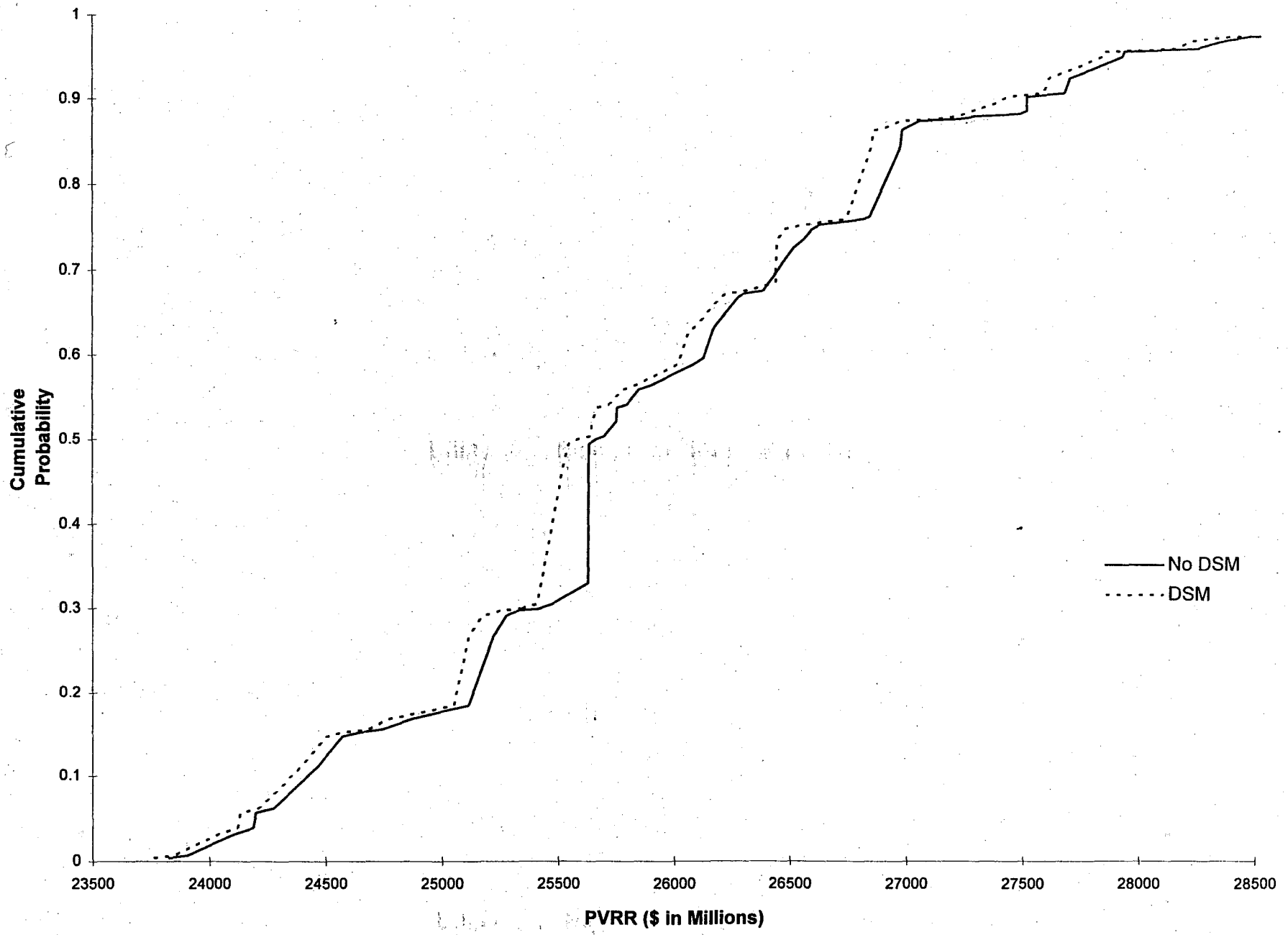
Schedule 2-10

Utility Cost Risk Profile for DSM Decision



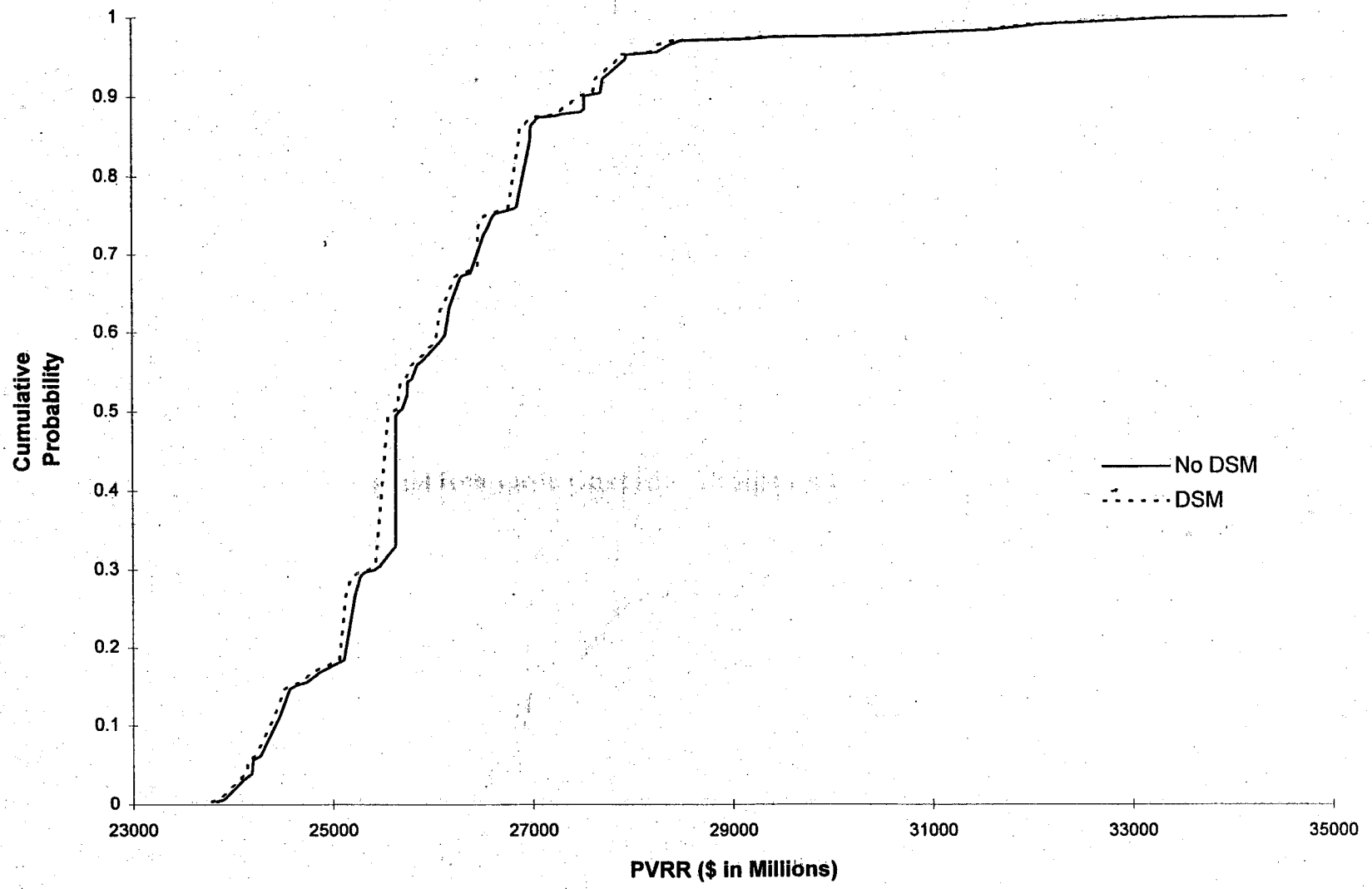
Schedule 2-11

Utility Cost Risk Profile for DSM Decision



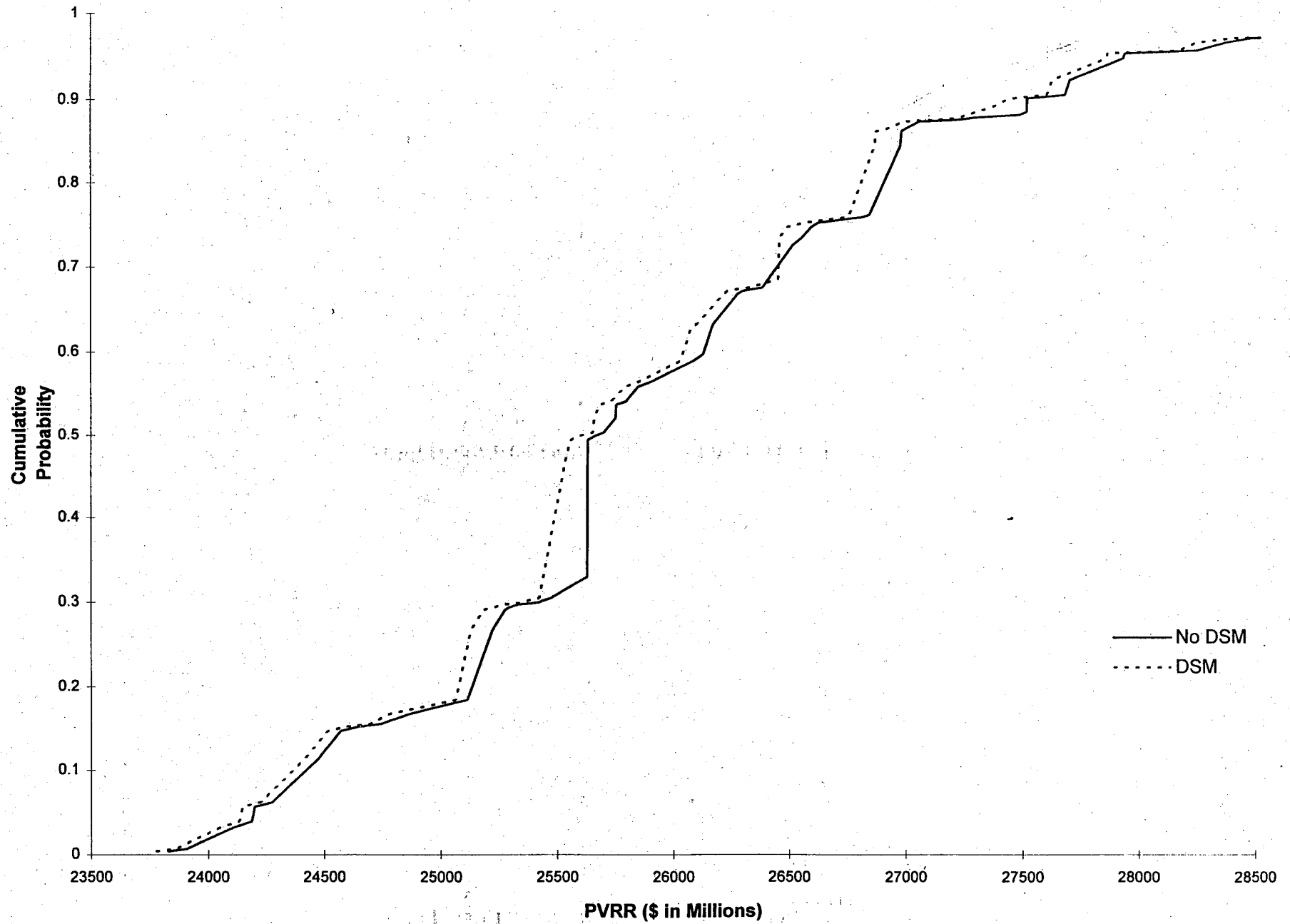
Schedule 2-12

Total Resource Cost Risk Profile for DSM Decision



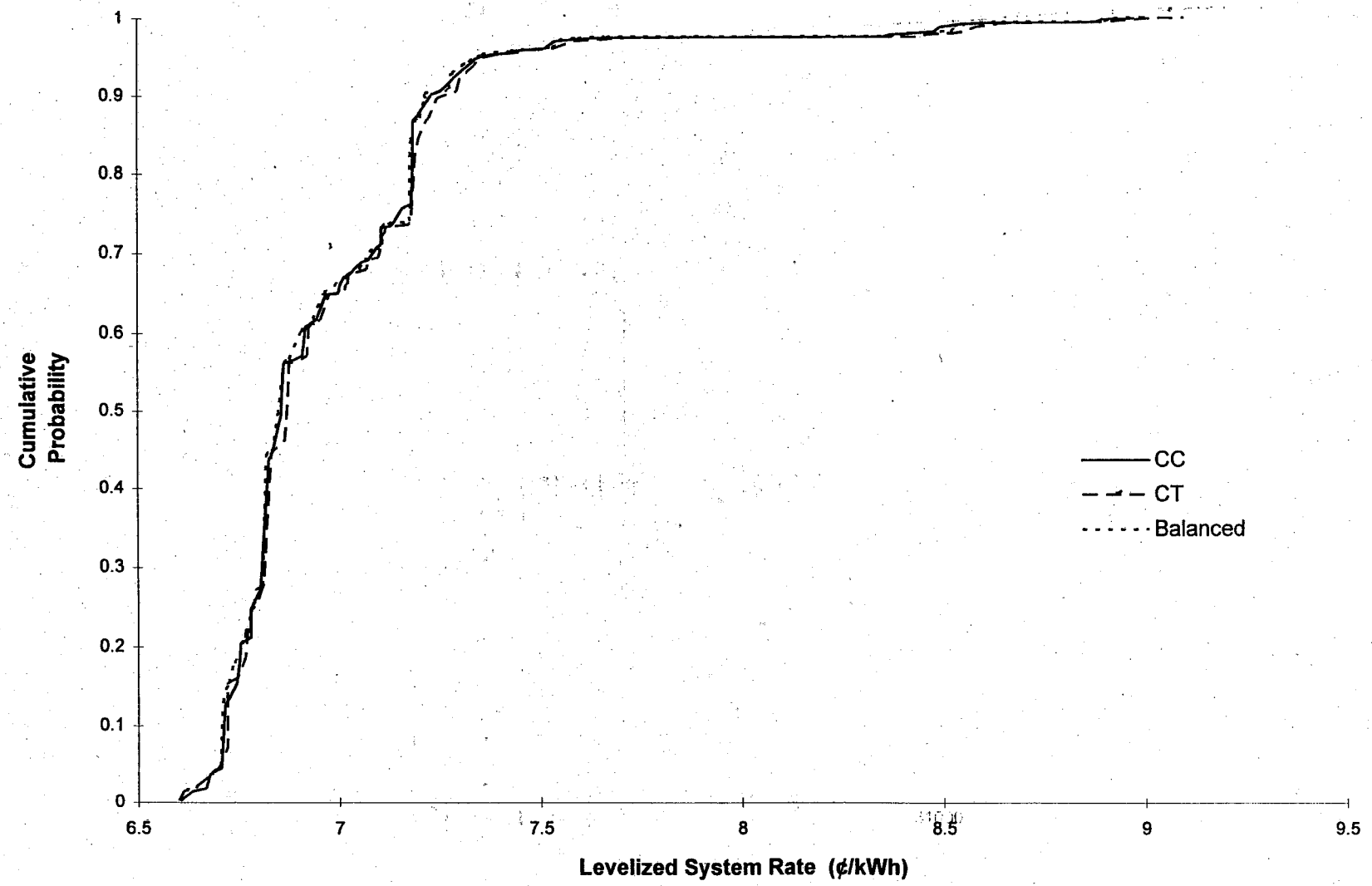
Schedule 2-13

Total Resource Cost Risk Profile for DSM Decision

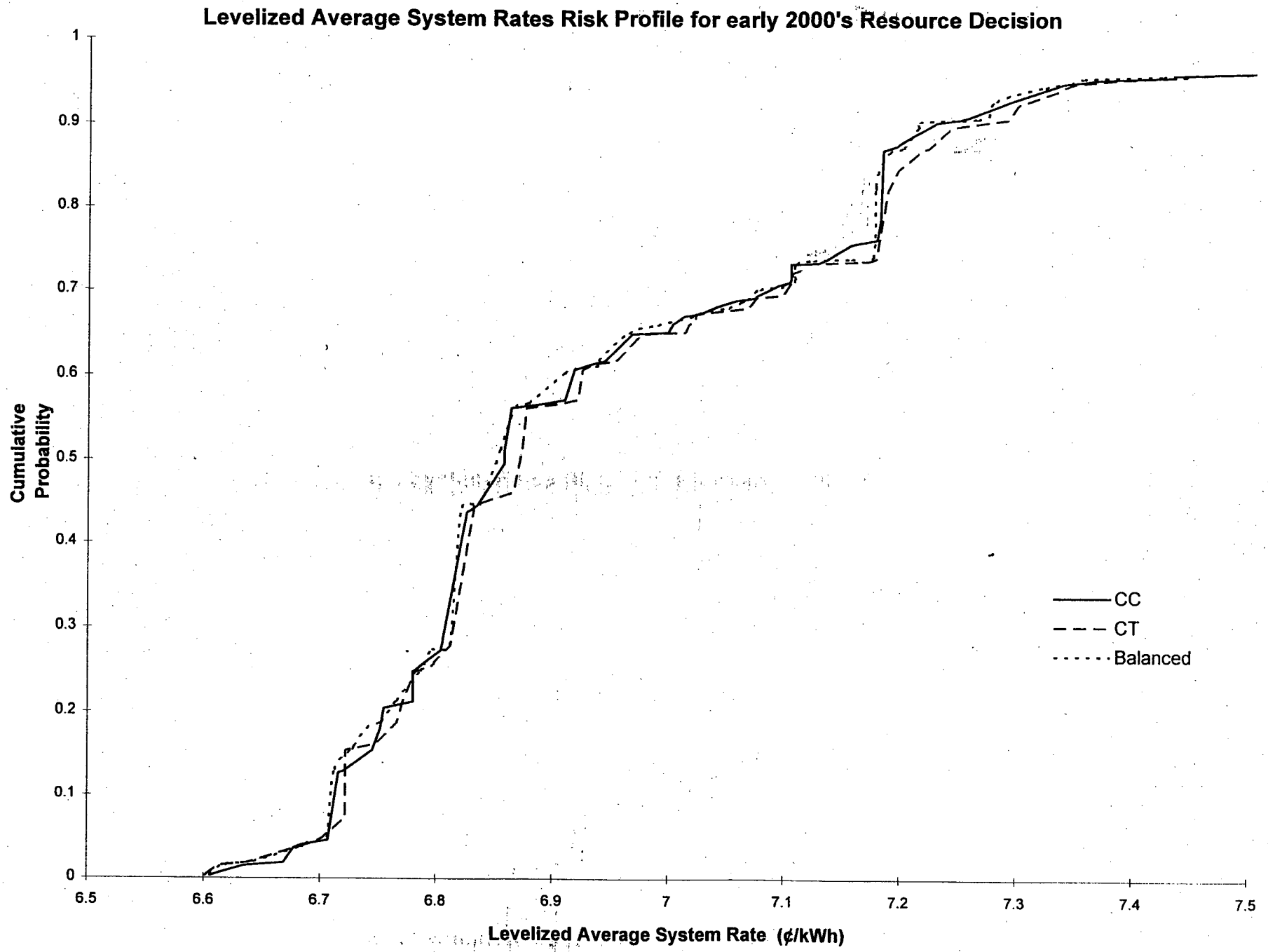


Schedule 2-14

Levelized System Rates Risk Profile for 2002 Resource Decision

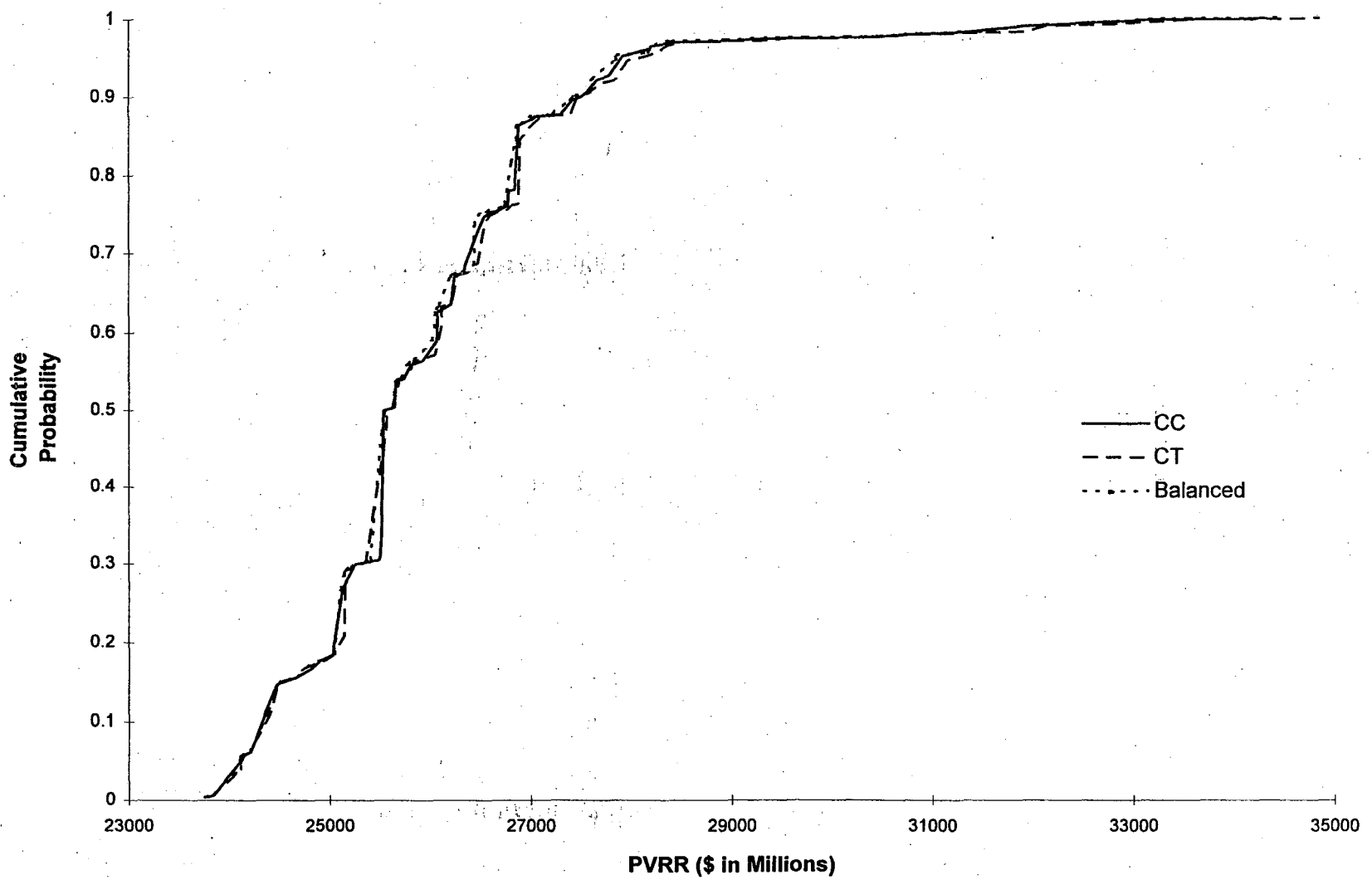


Schedule 2-15



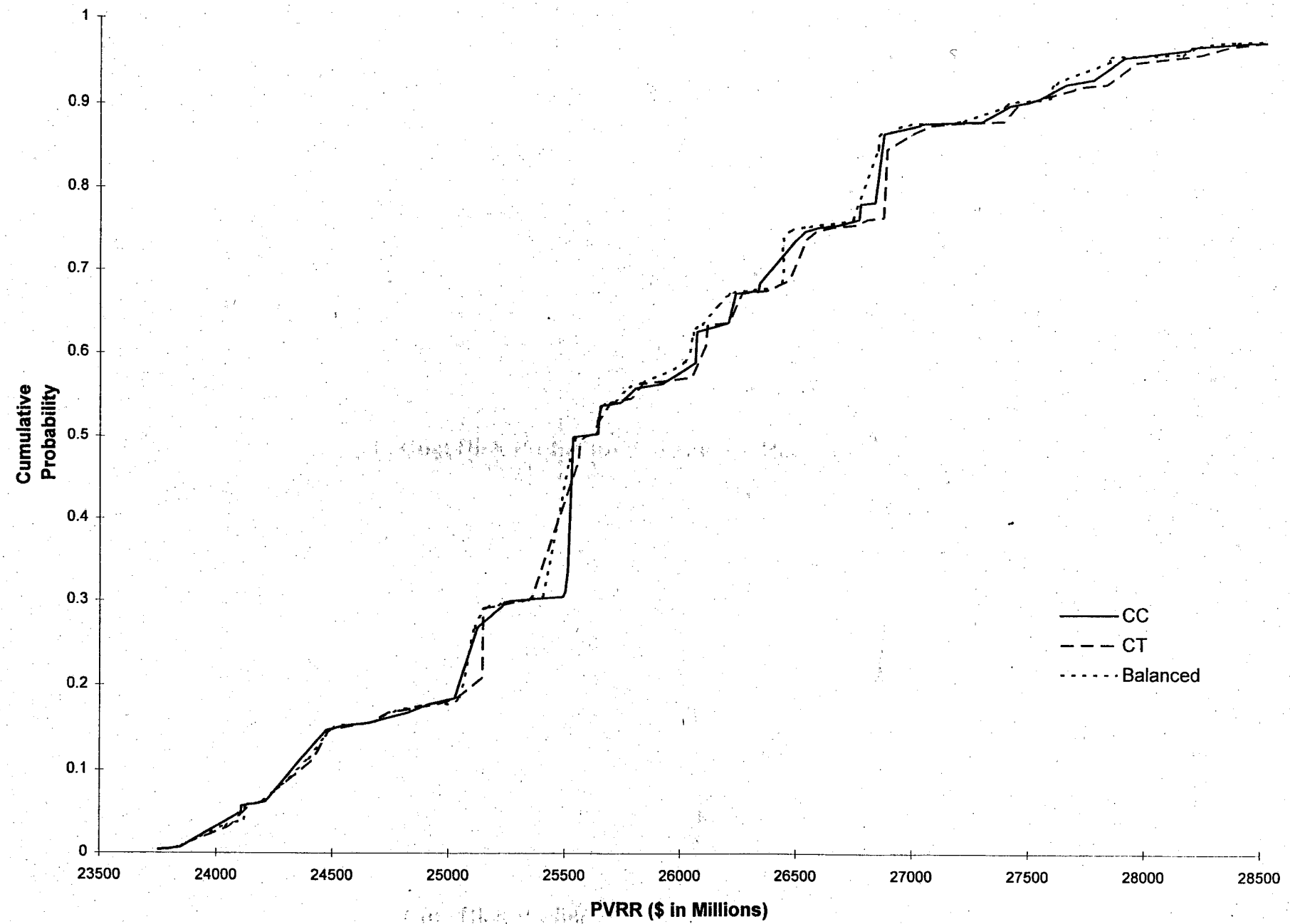
Schedule 2-16

Utility Cost Risk Profile for 2002 Resource Decision



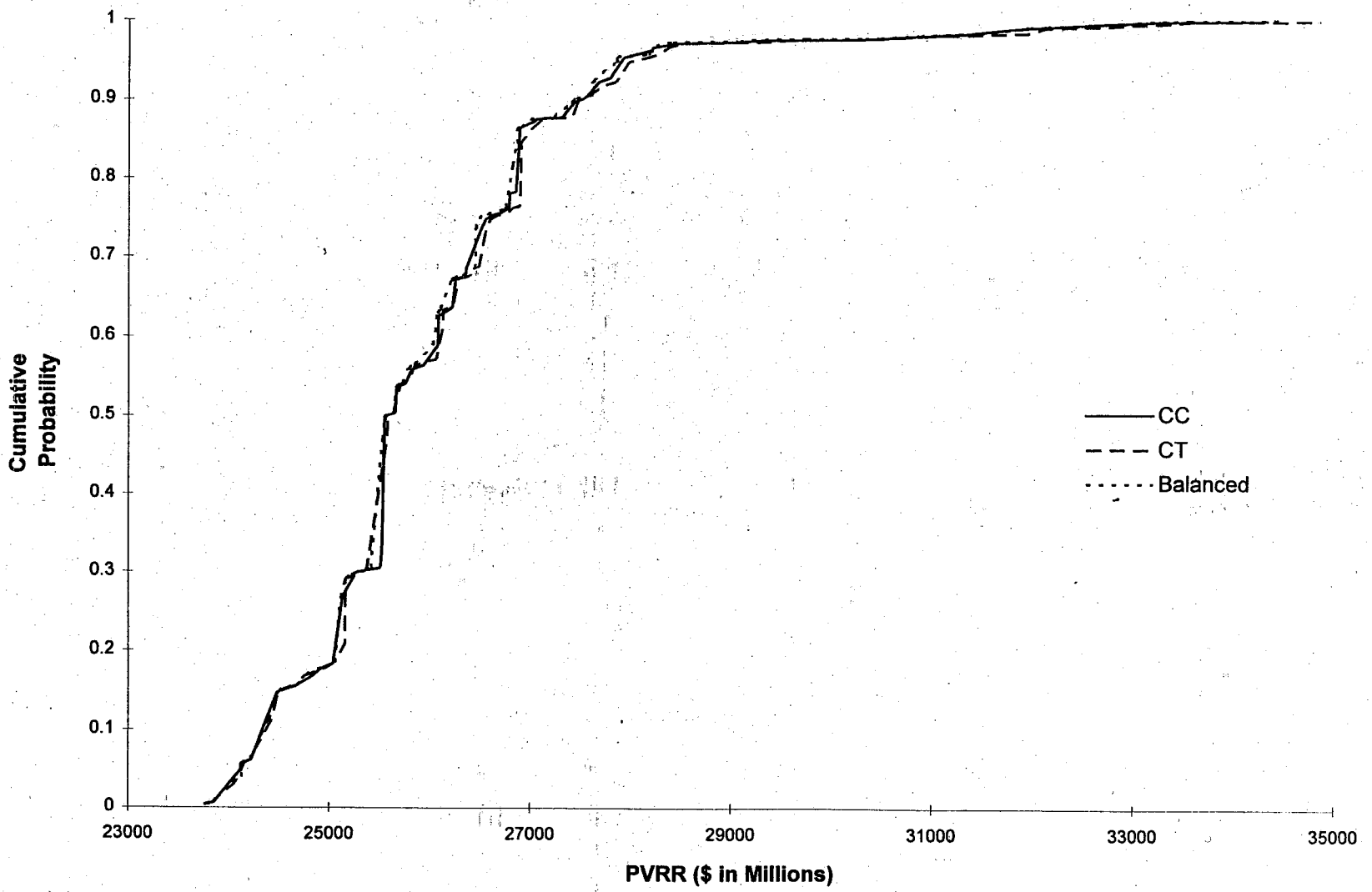
Schedule 2-17

Utility Cost Risk Profile for early 2000's Resource Decision



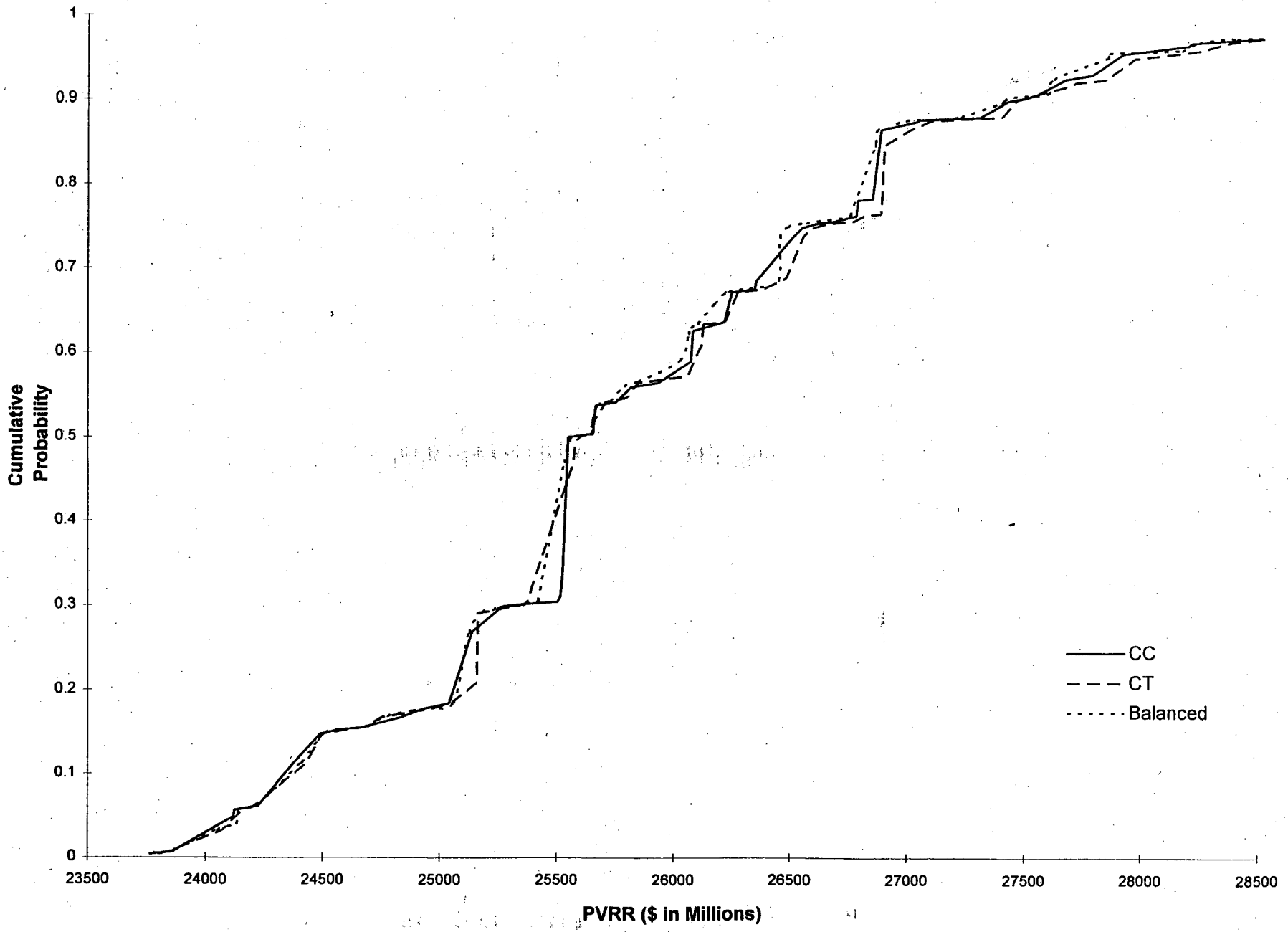
Schedule 2-18

Total Resource Cost Risk Profile for 2002 Resource Decision



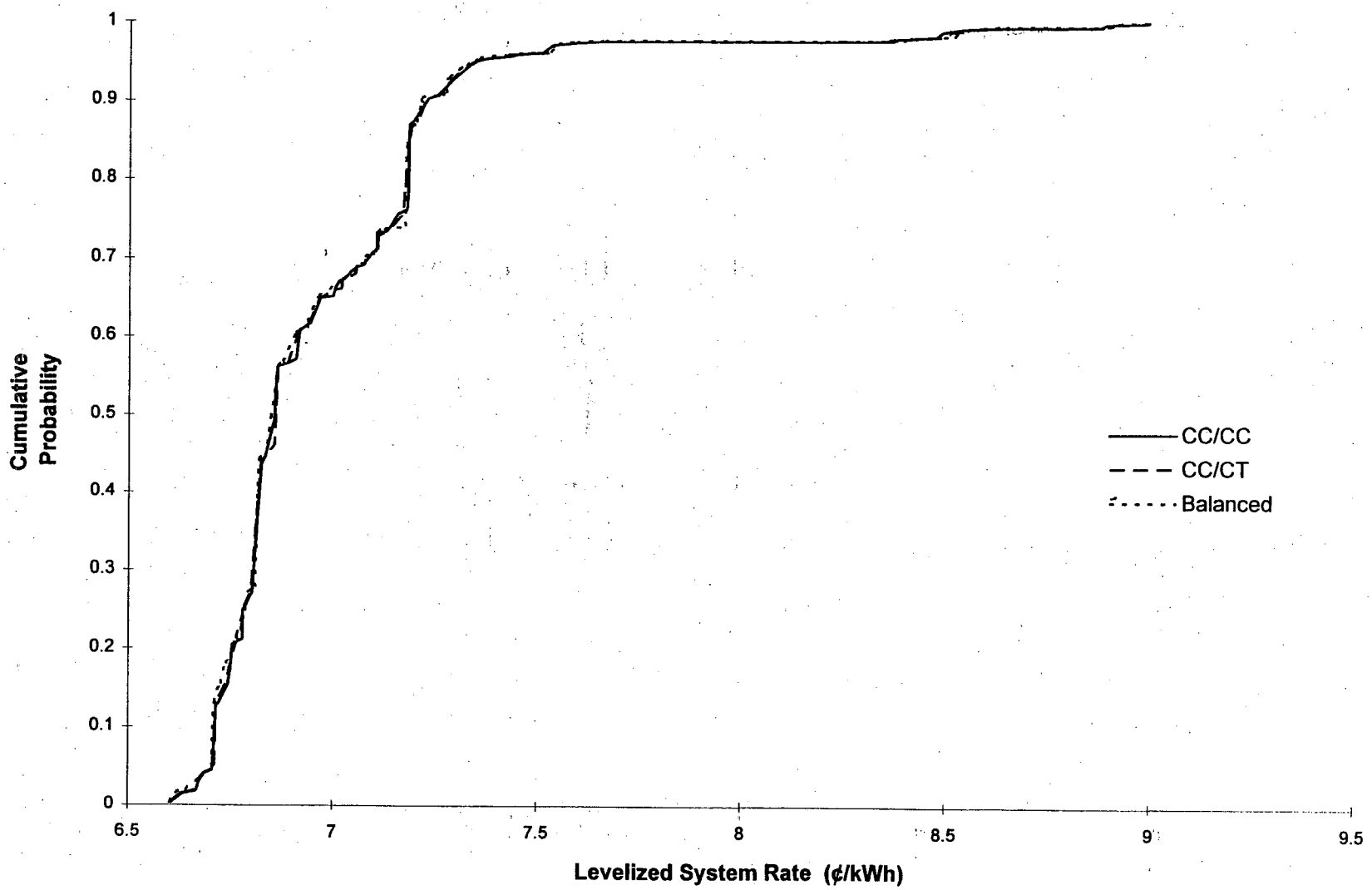
Schedule 2-19

Total Resource Cost Risk Profile for early 2000's Resource Decision

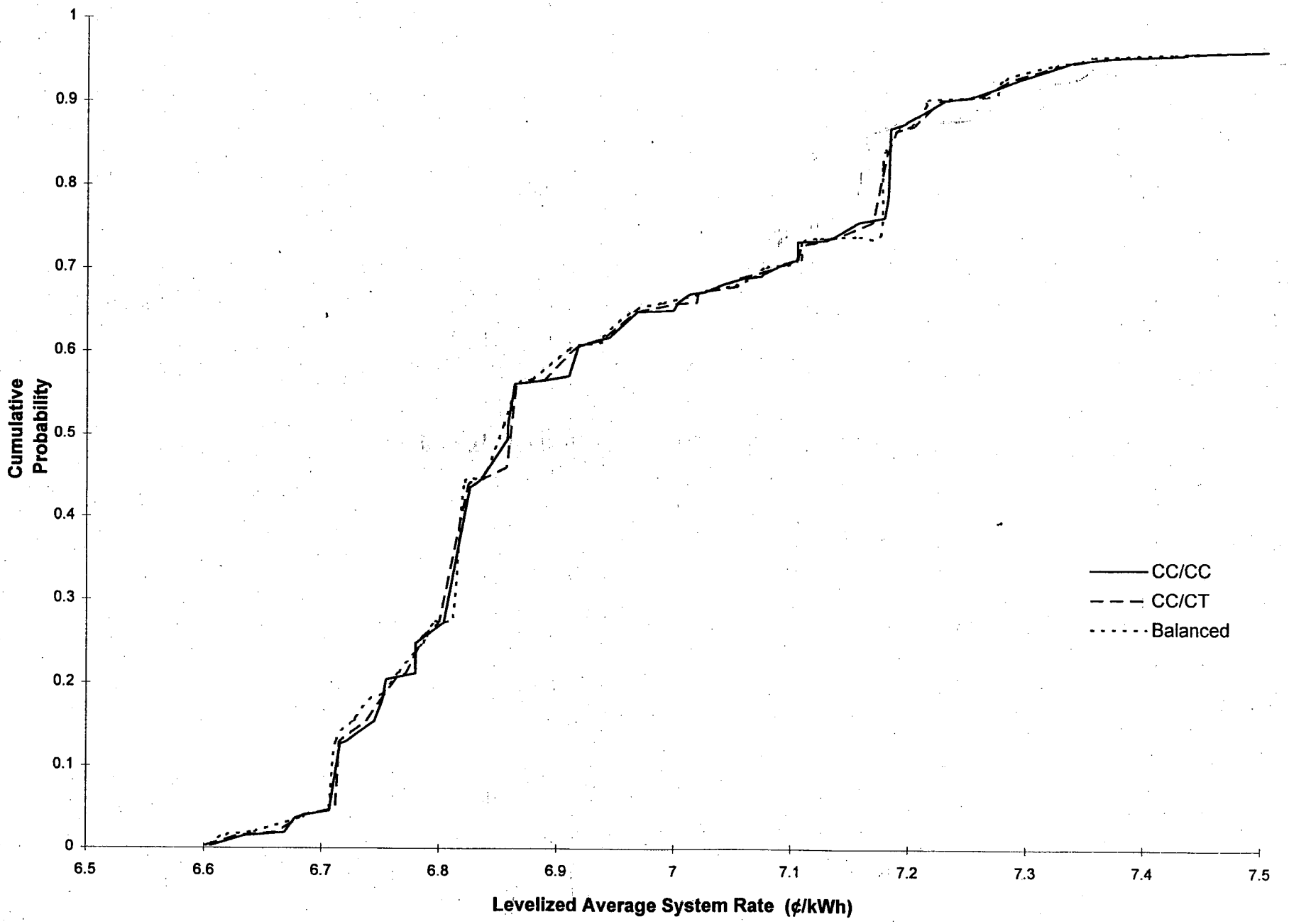


Schedule 2-20

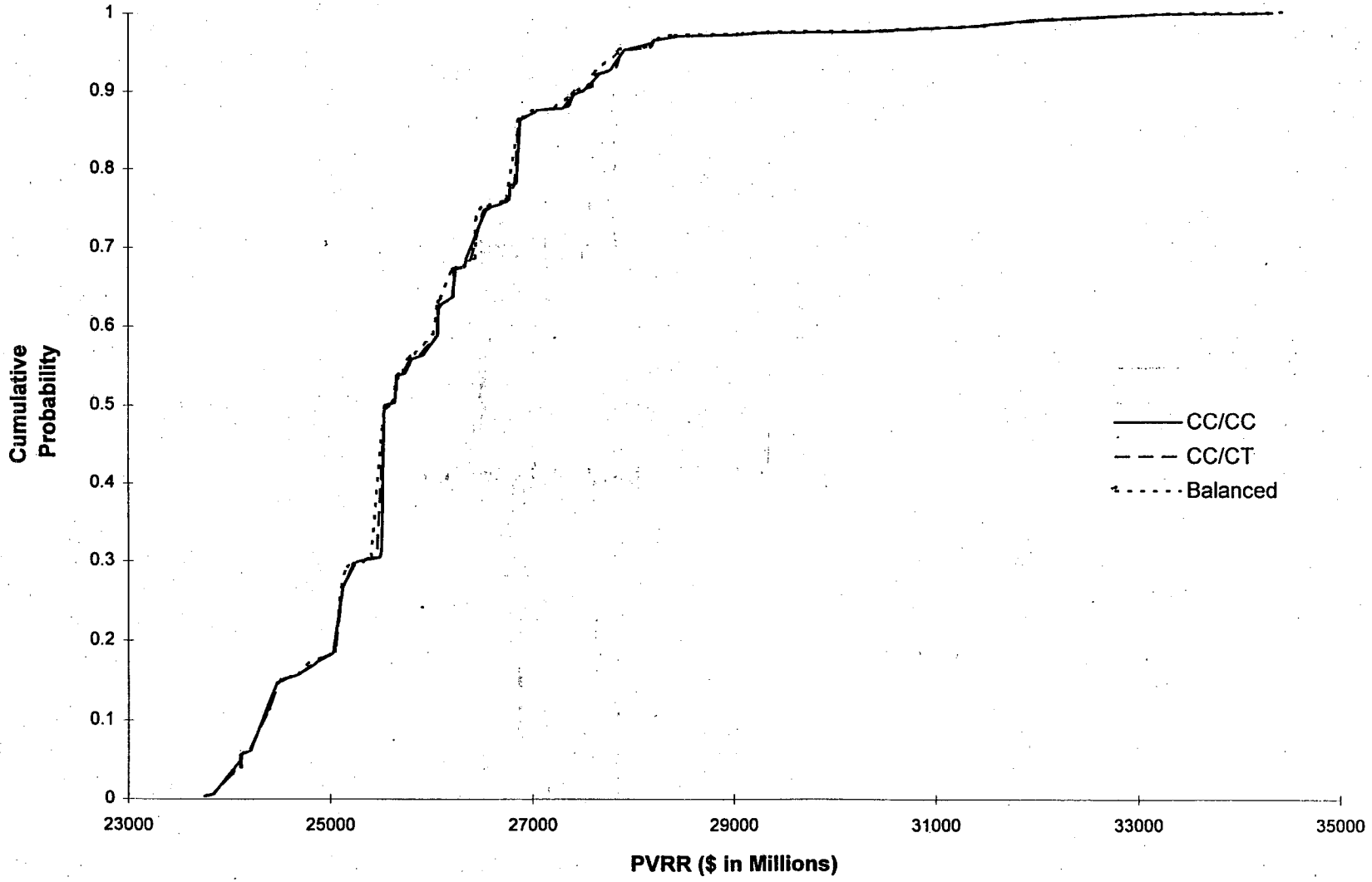
Levelized System Rates Risk Profile for 2008 Resource Decision



Levelized Average System Rates Risk Profile for 2008 Resource Decision

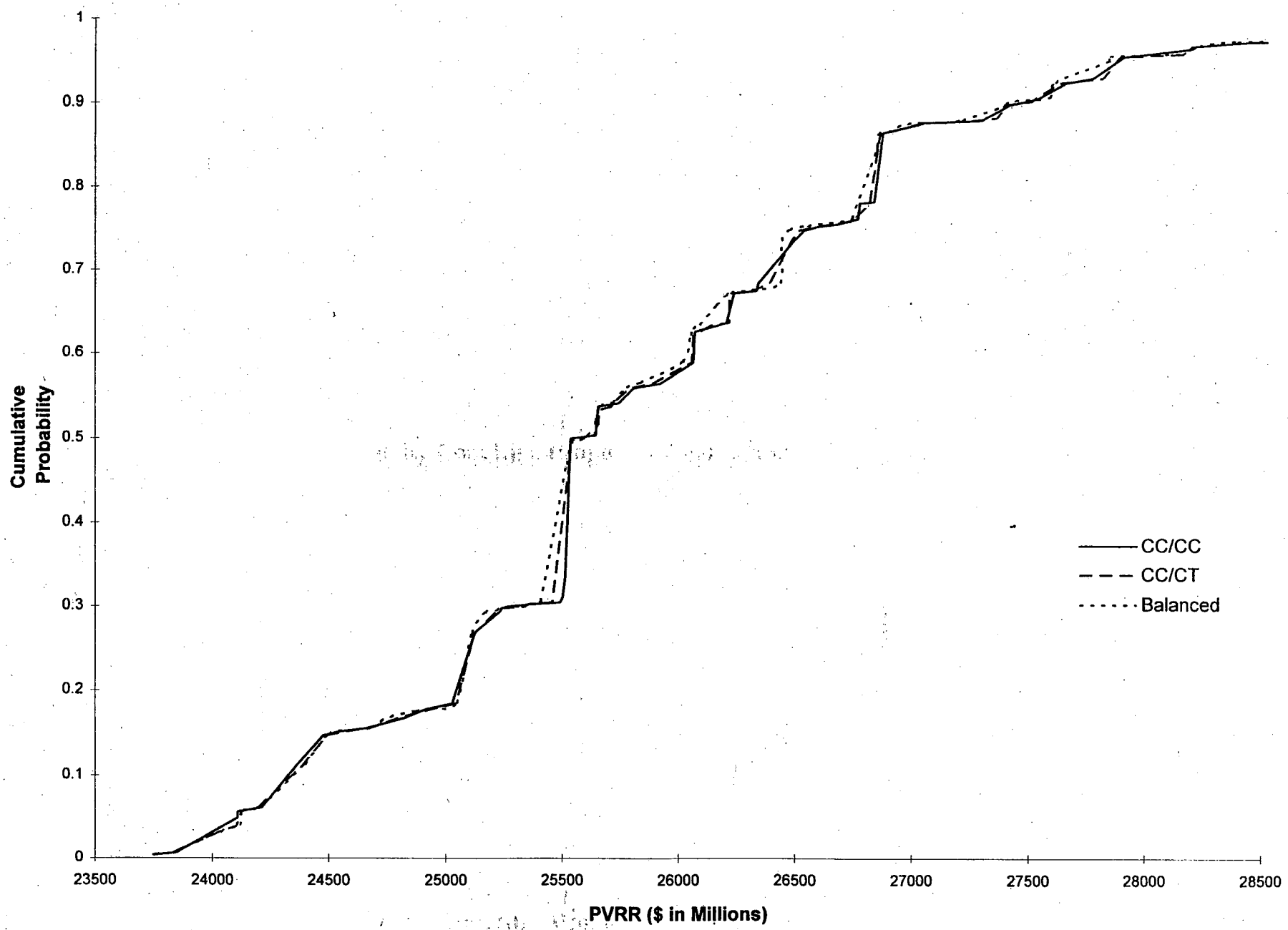


Utility Cost Risk Profile for 2008 Resource Decision



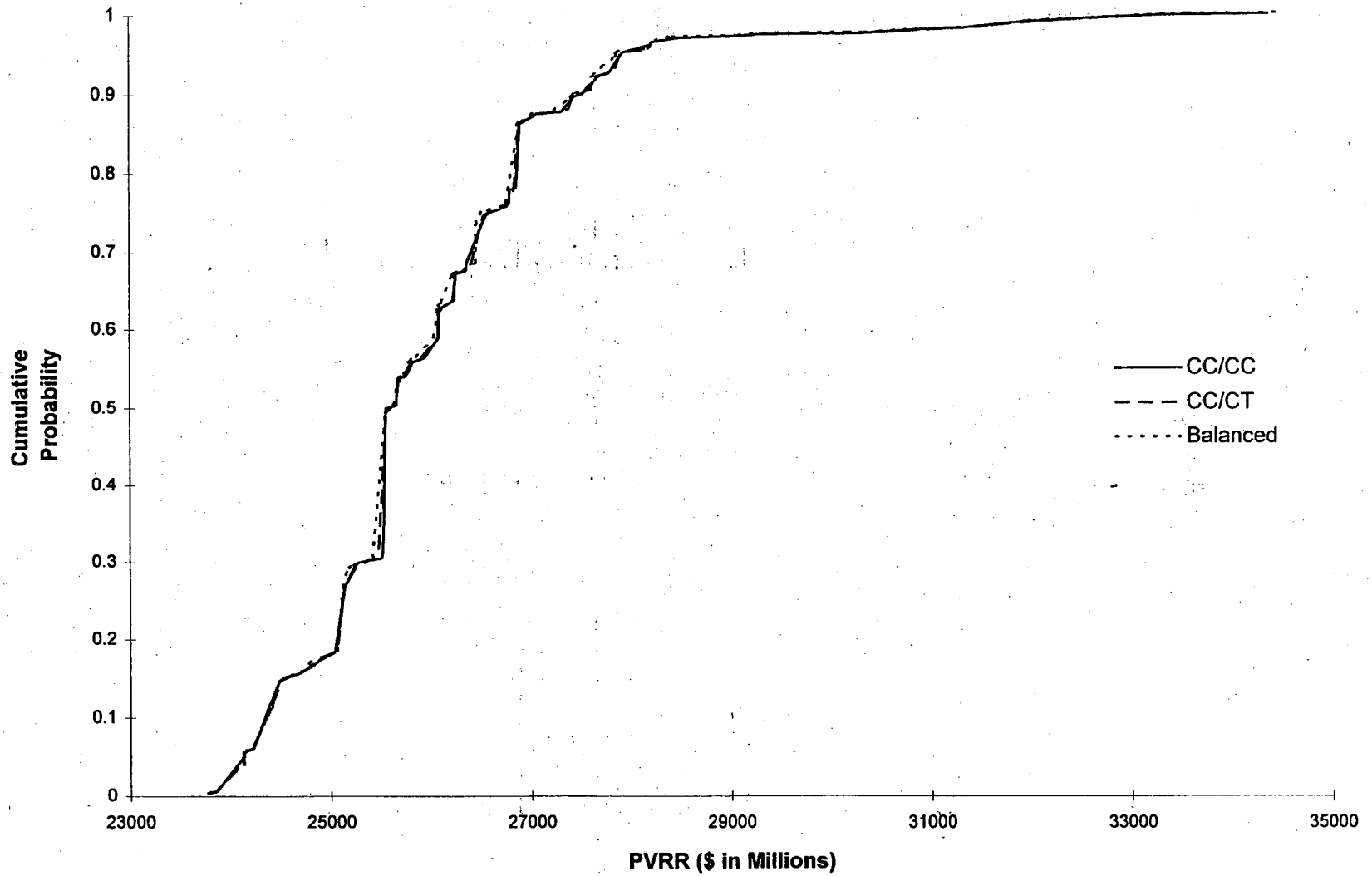
Schedule 2-23

Utility Cost Risk Profile for 2008 Resource Decision



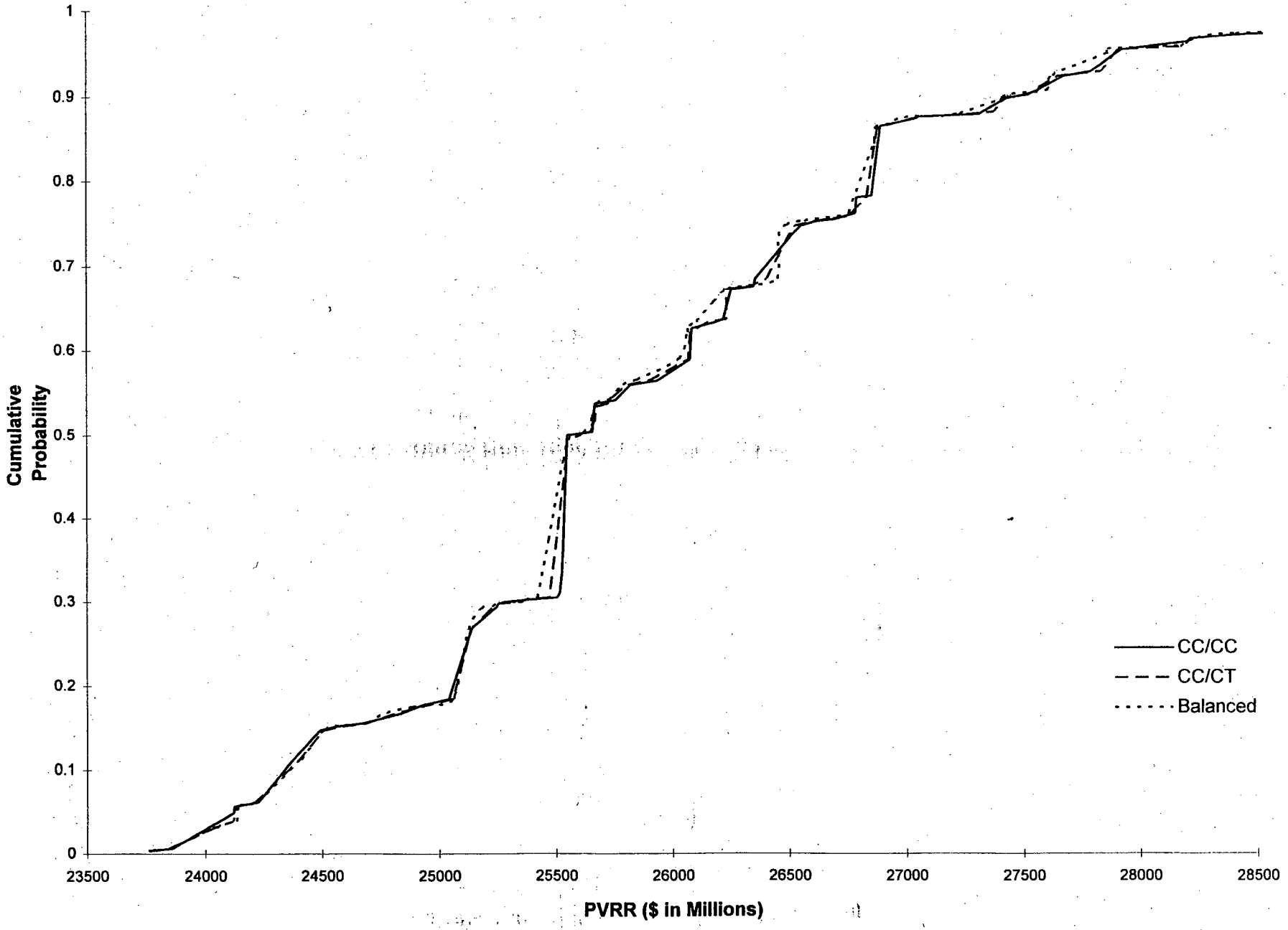
Schedule 2-24

Total Resource Cost Risk Profile for 2008 Resource Decision



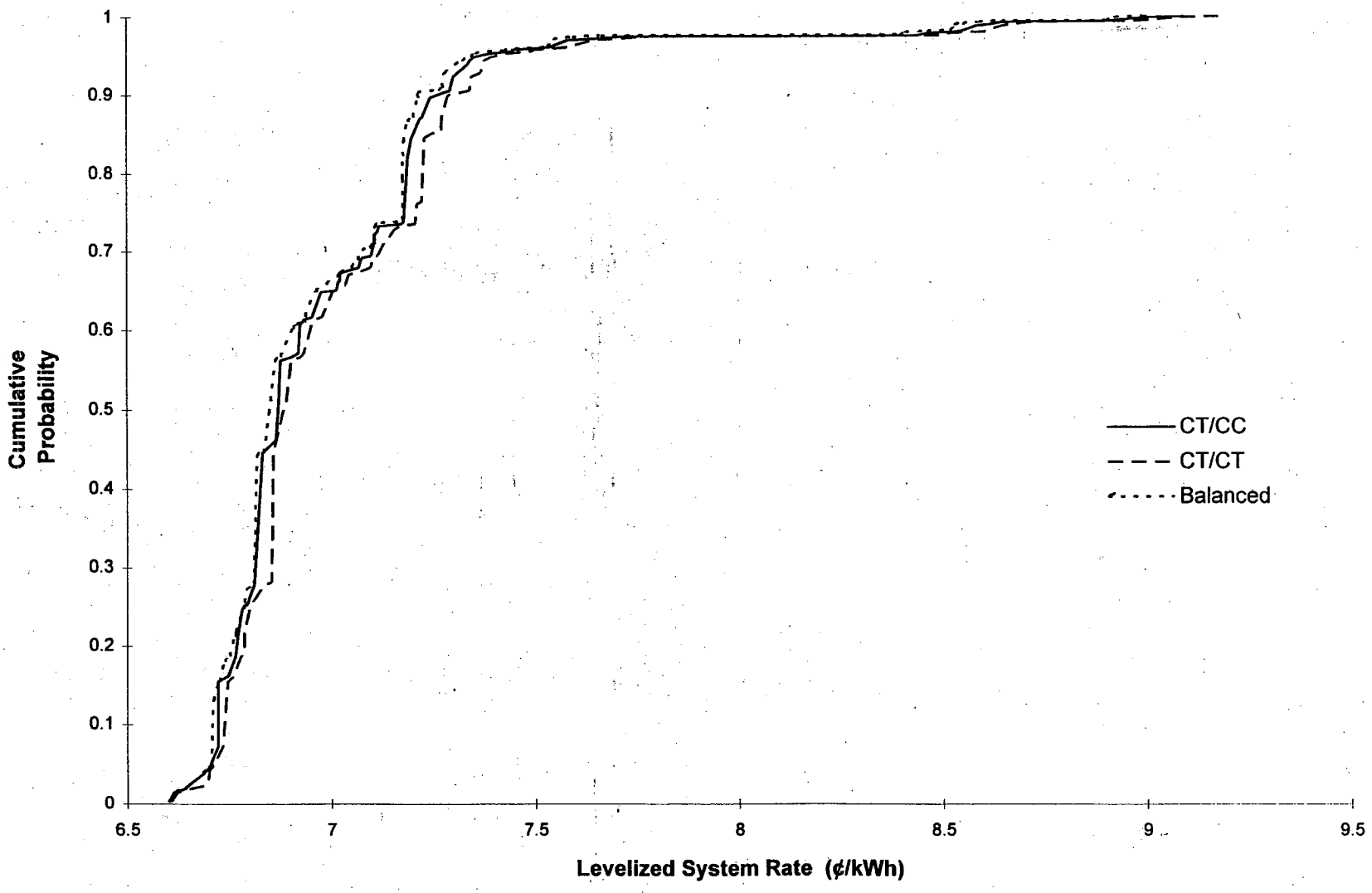
Schedule 2-25

Total Resource Cost Risk Profile for 2008 Resource Decision



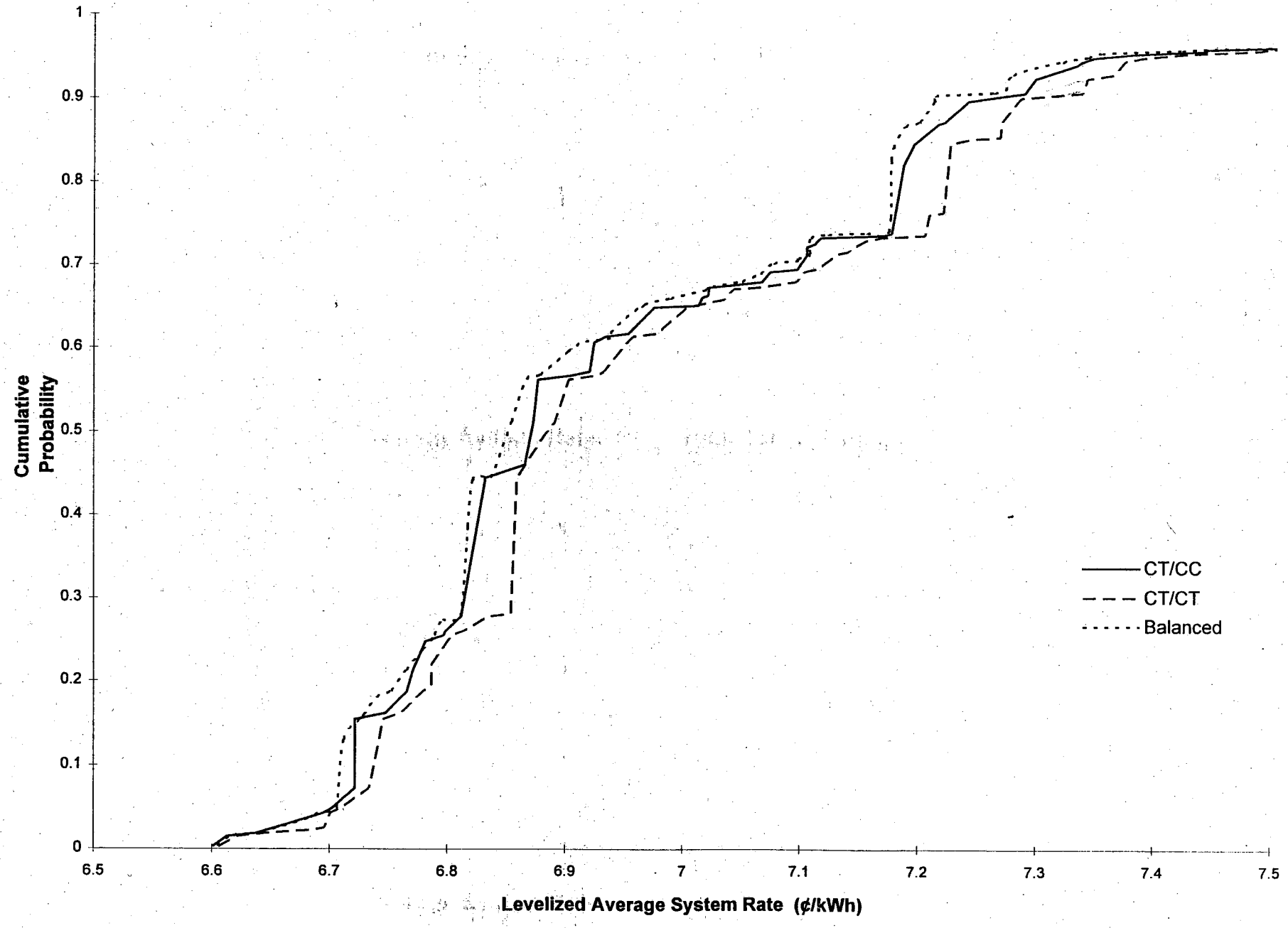
Schedule 2-26

Levelized System Rates Risk Profile for 2008 Resource Decision

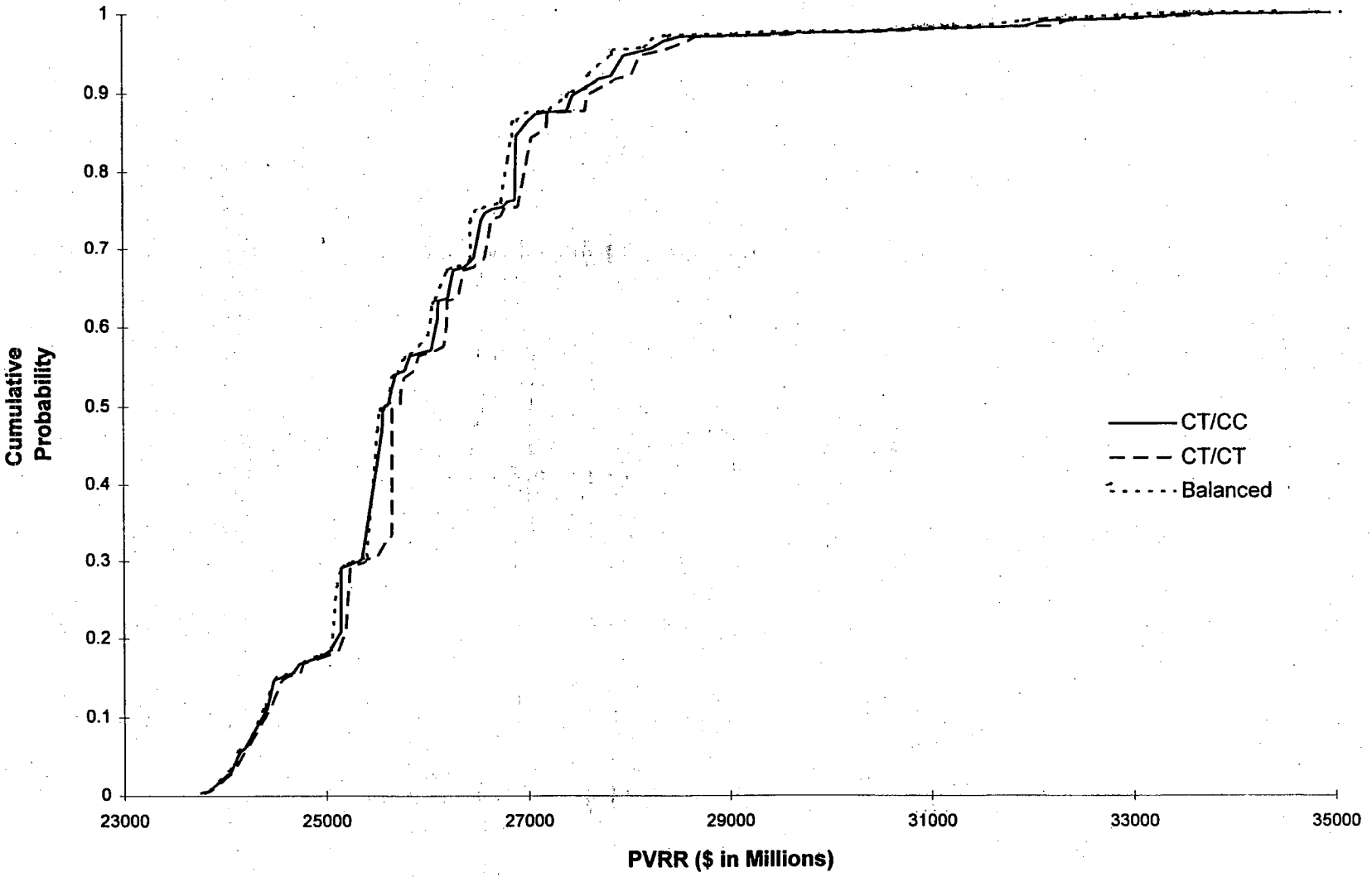


Schedule 2-27

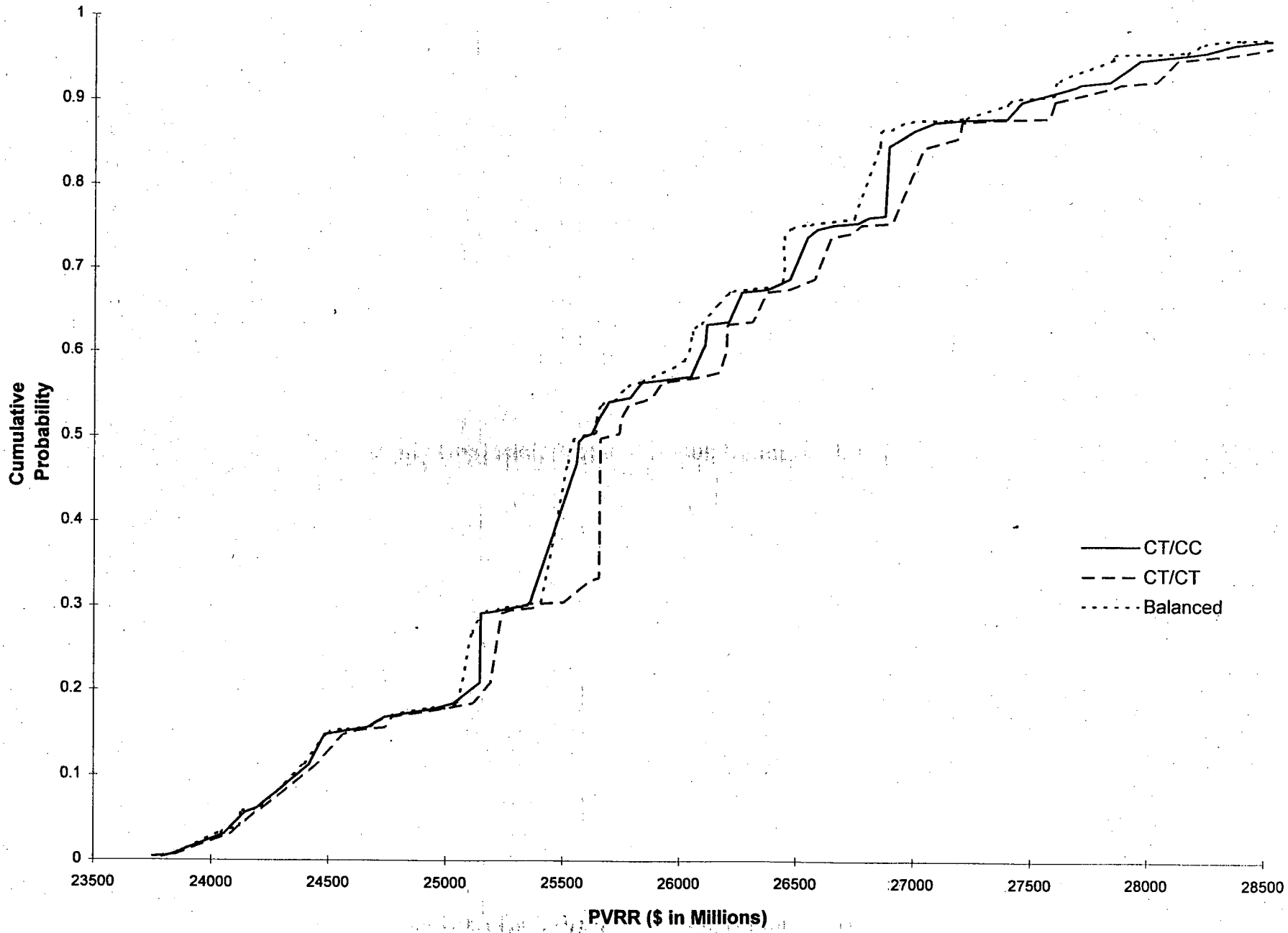
Levelized Average System Rates Risk Profile for 2008 Resource Decision



Utility Cost Risk Profile for 2008 Resource Decision

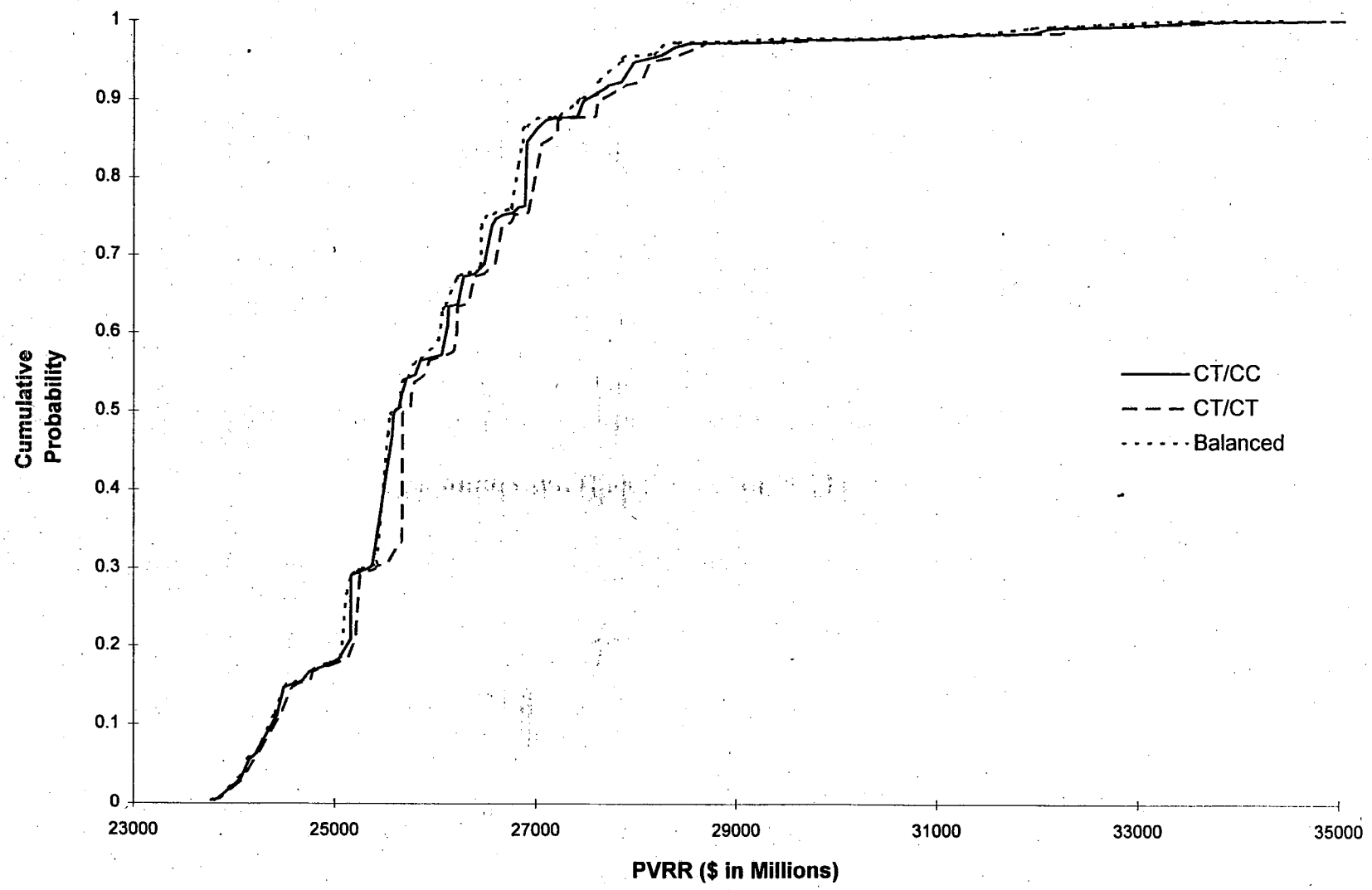


Utility Cost Risk Profile for 2008 Resource Decision

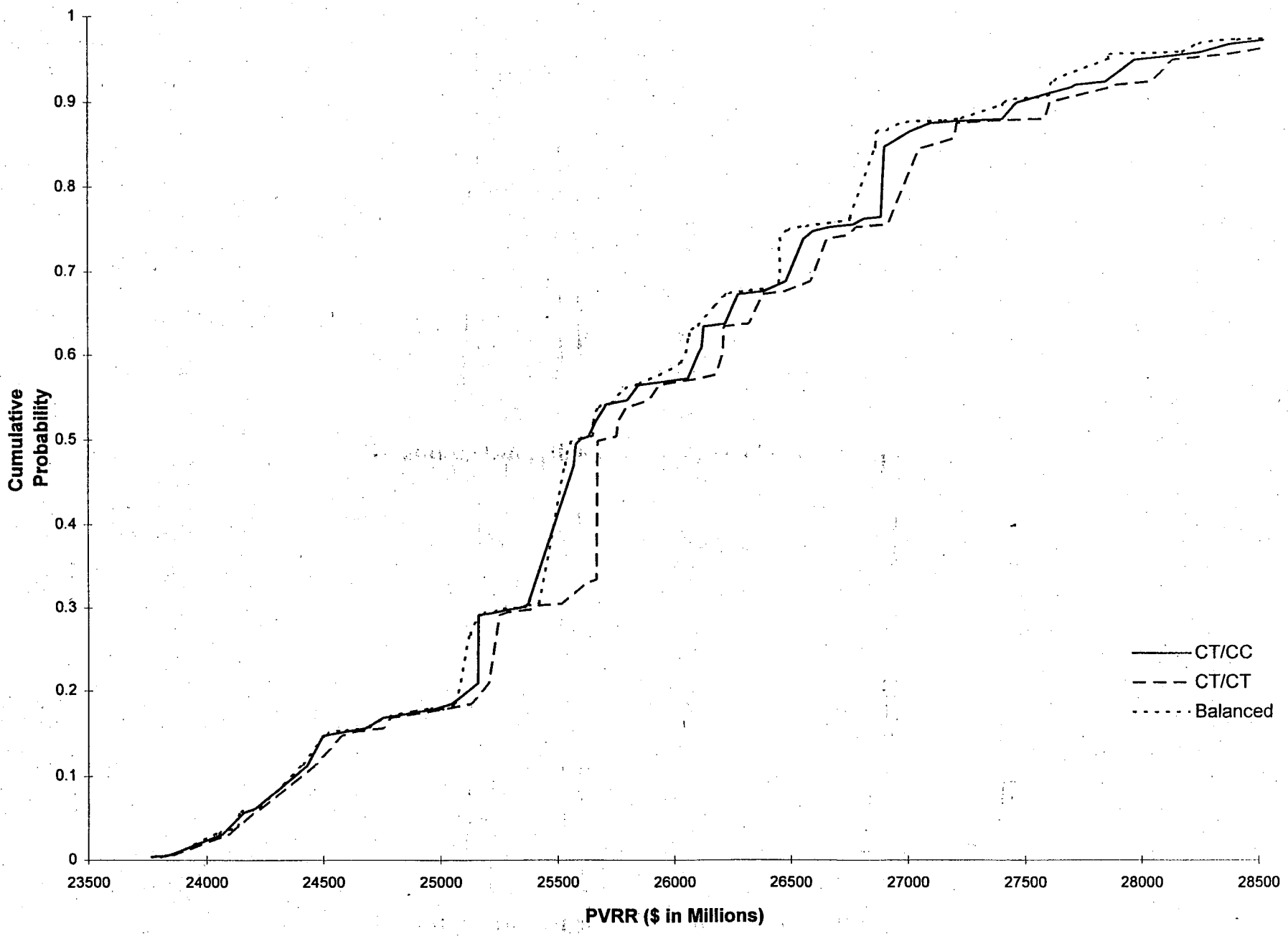


Schedule 2-30

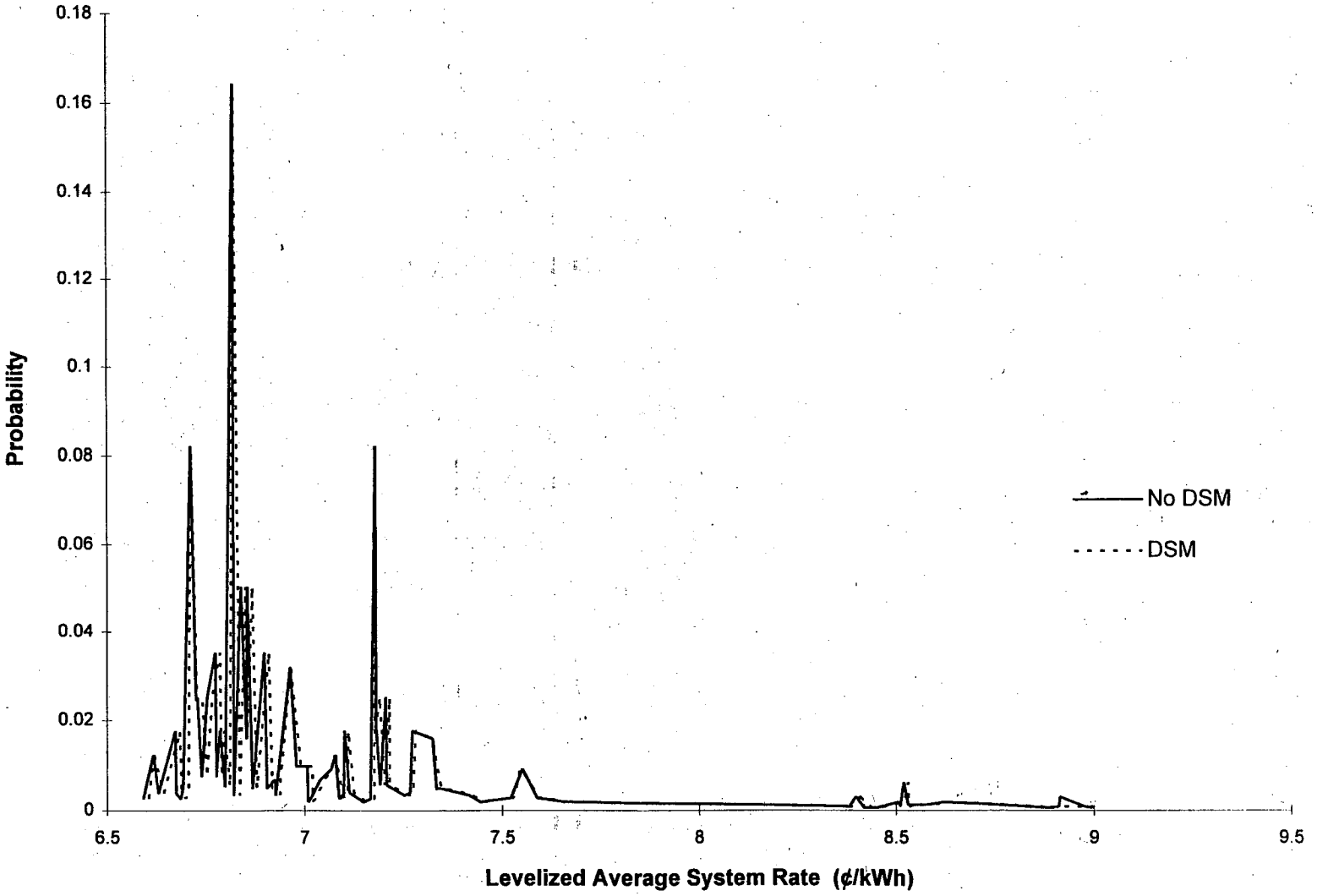
Total Resource Cost Risk Profile for 2008 Resource Decision



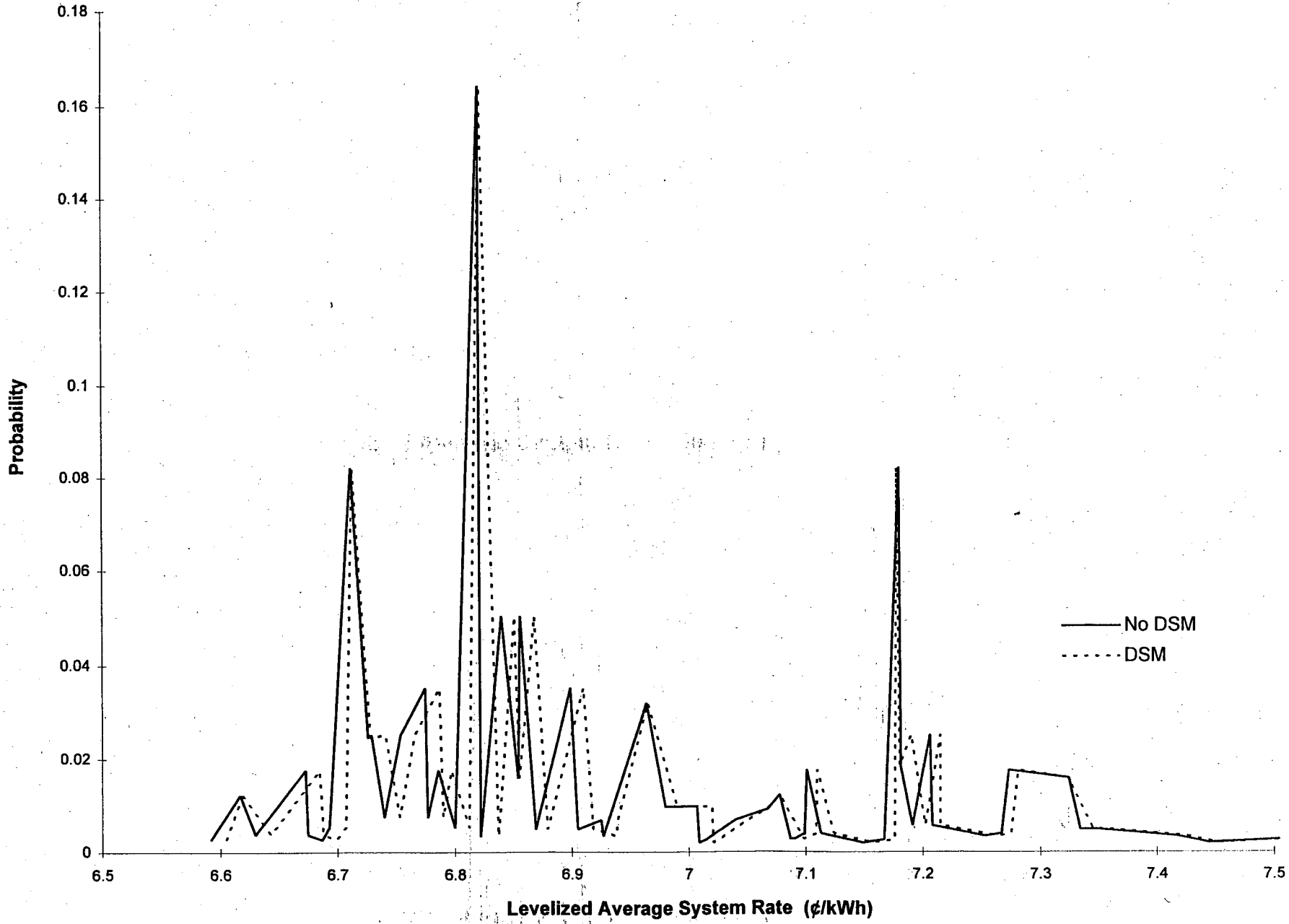
Total Resource Cost Risk Profile for 2008 Resource Decision



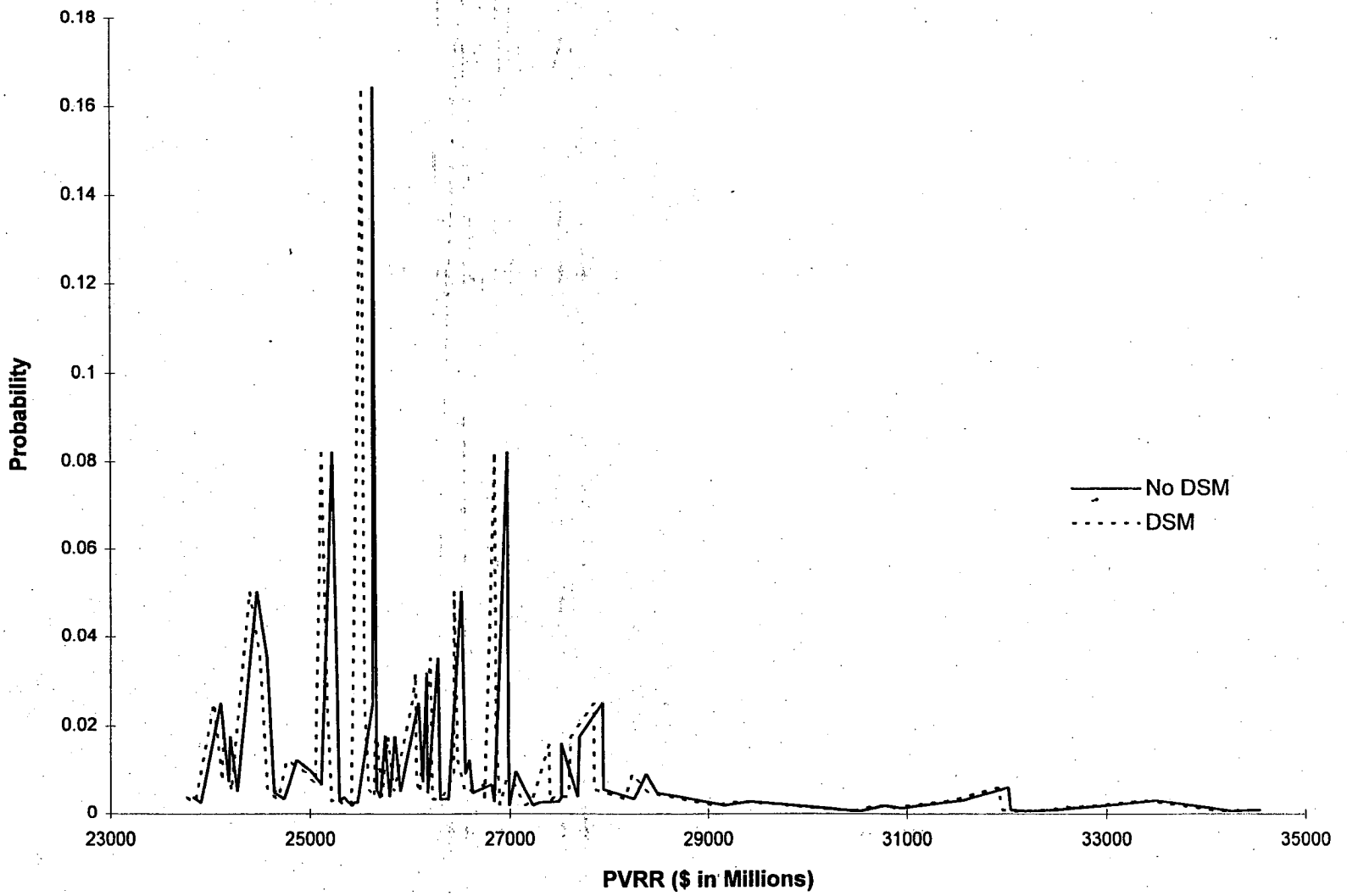
Levelized Average System Rates Histogram for DSM Decision



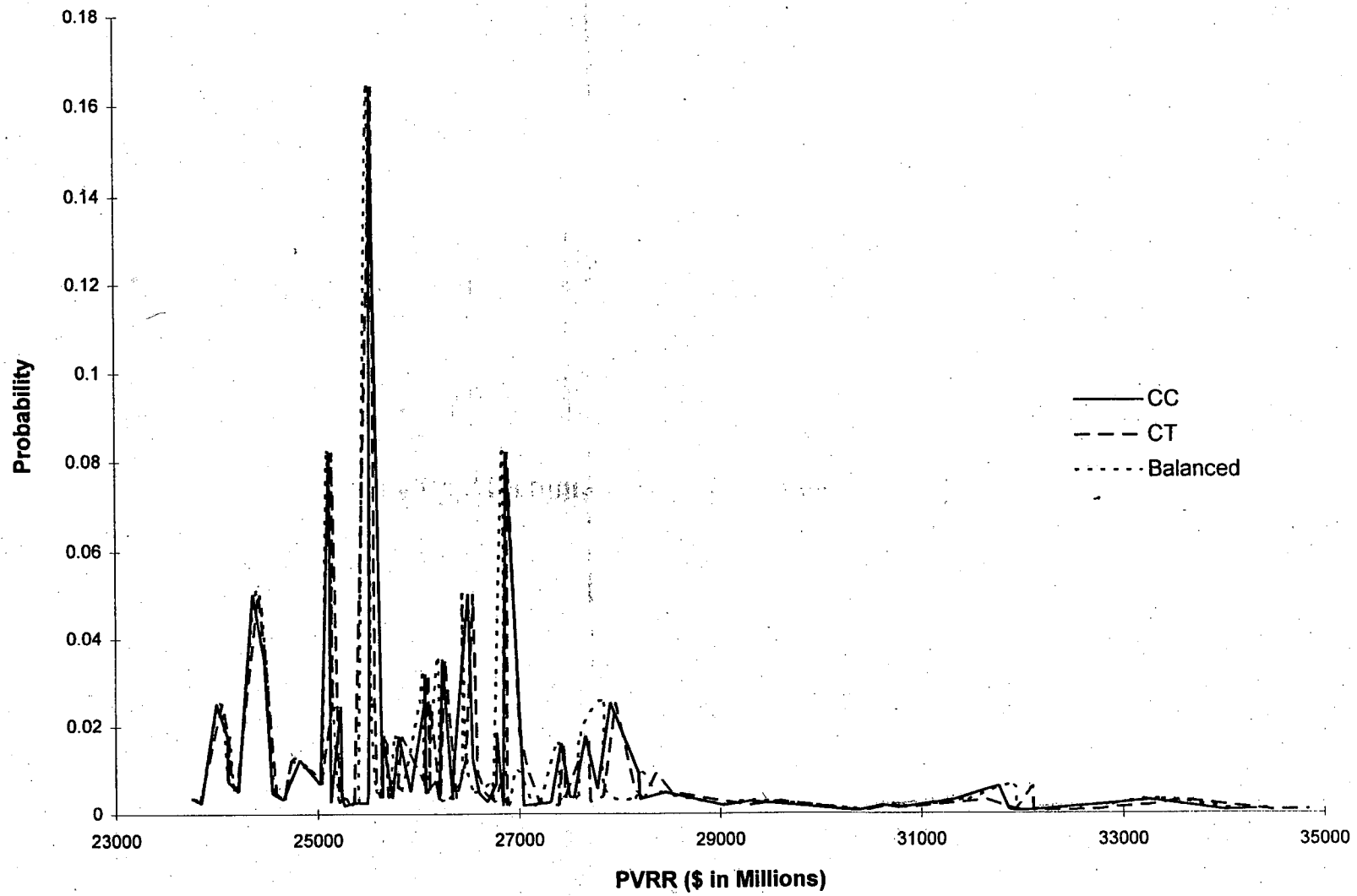
Levelized Average System Rates Histogram for DSM Decision



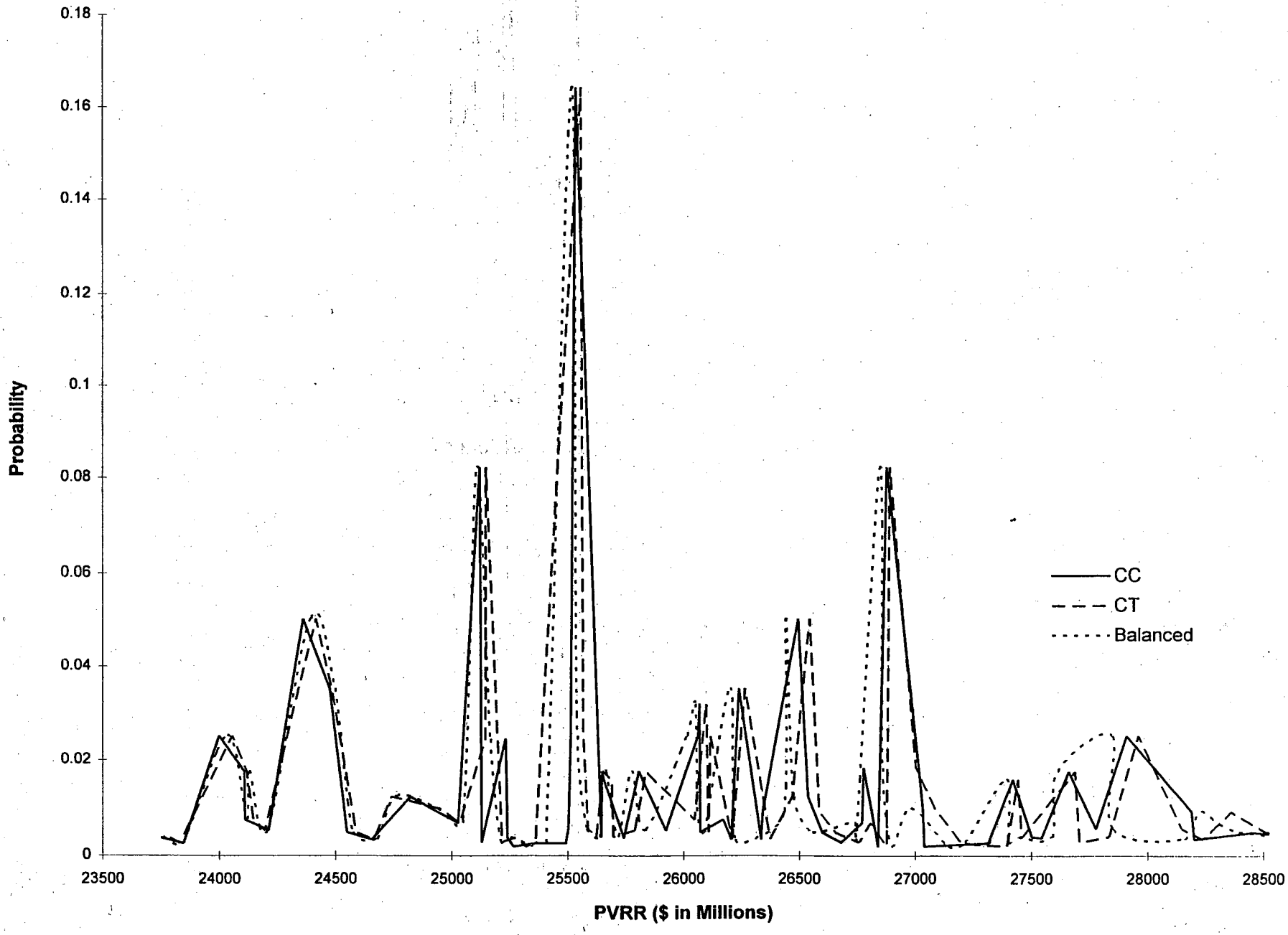
Utility Cost Histogram for DSM Decision



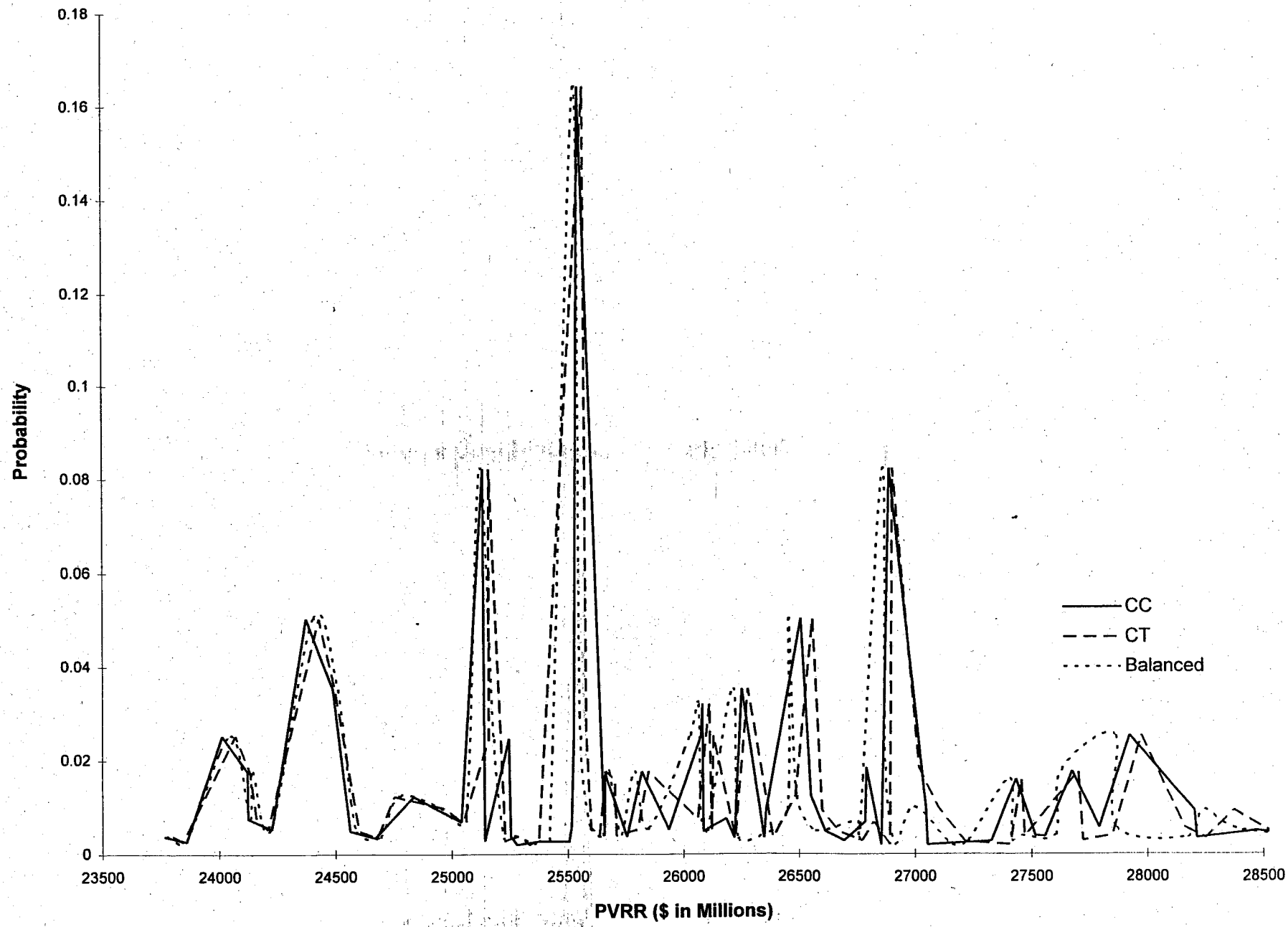
Utility Cost Histogram for 2002 Resource Decision



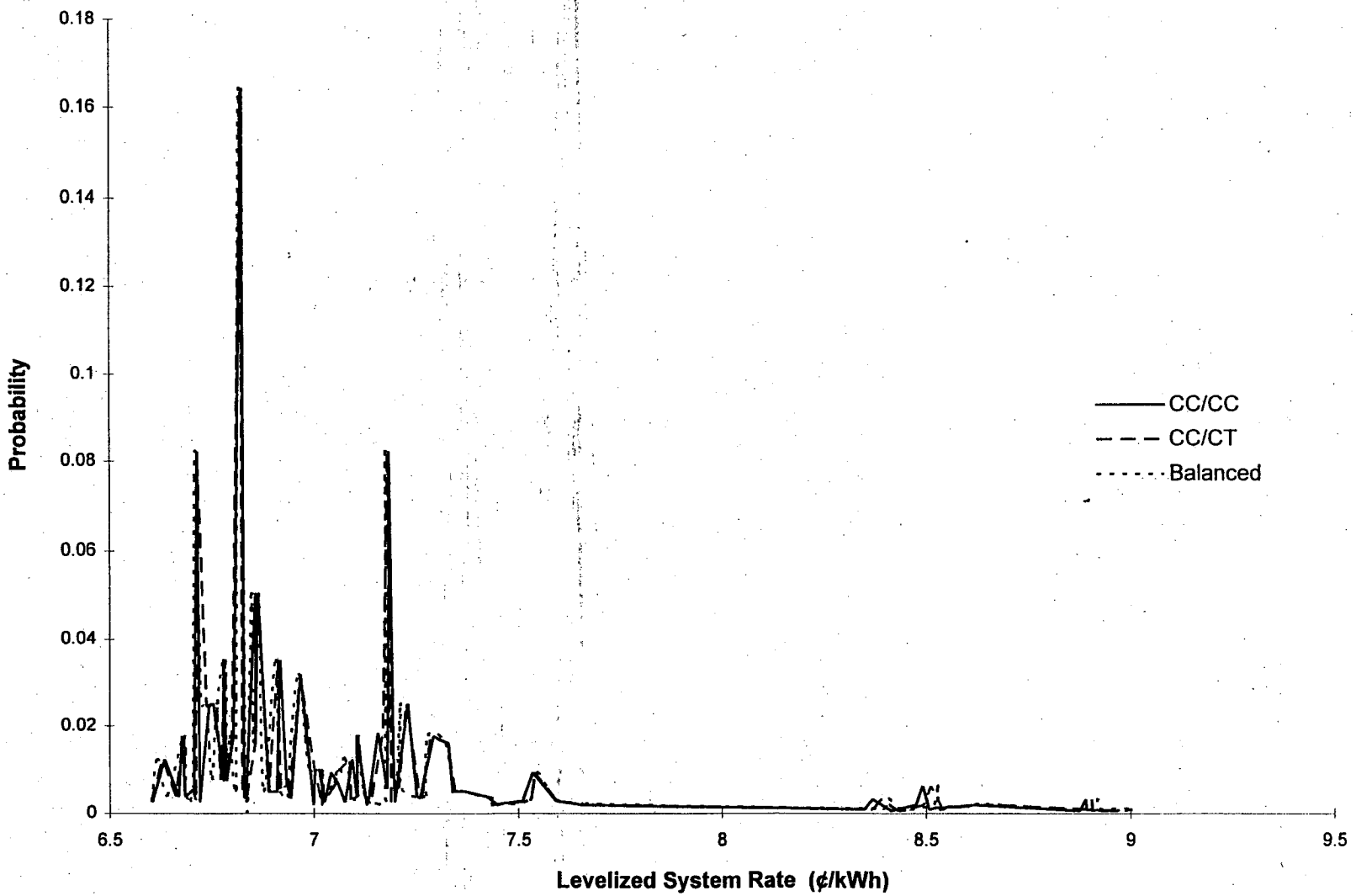
Utility Cost Histogram for early 2000's Resource Decision



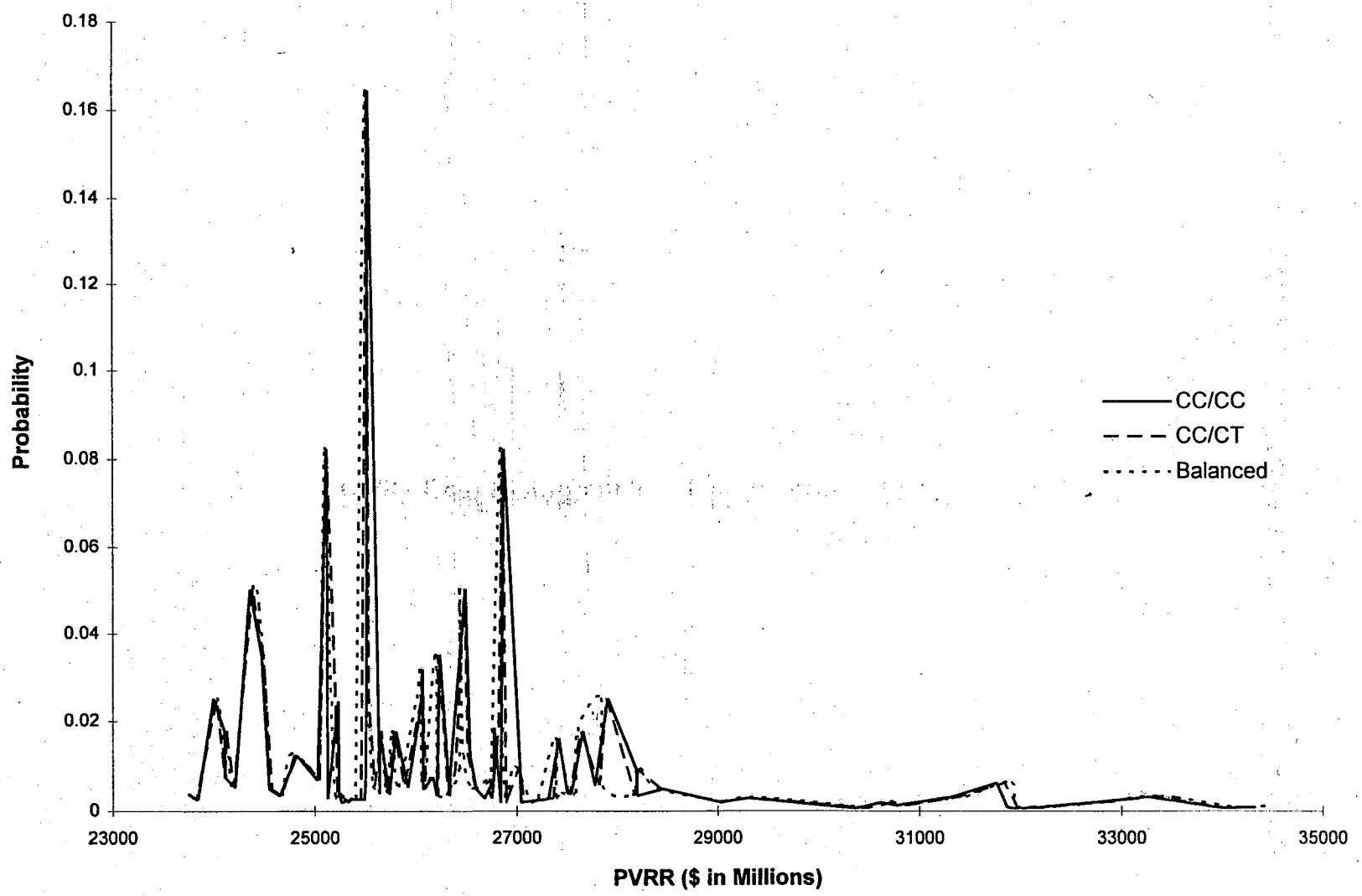
Total Resource Cost Histogram for early 2000's Resource Decision



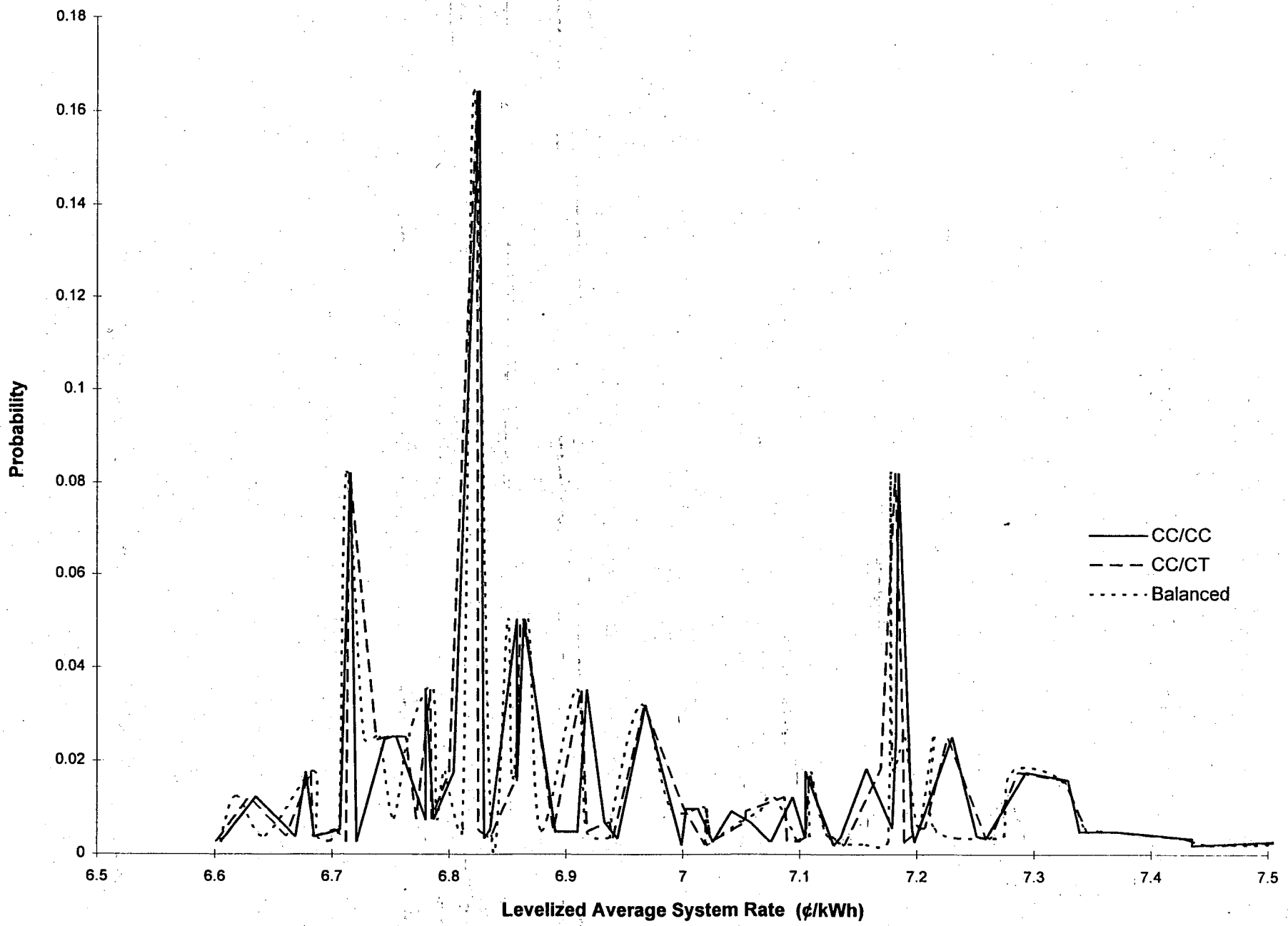
Levelized System Rates Histogram for 2008 Resource Decision



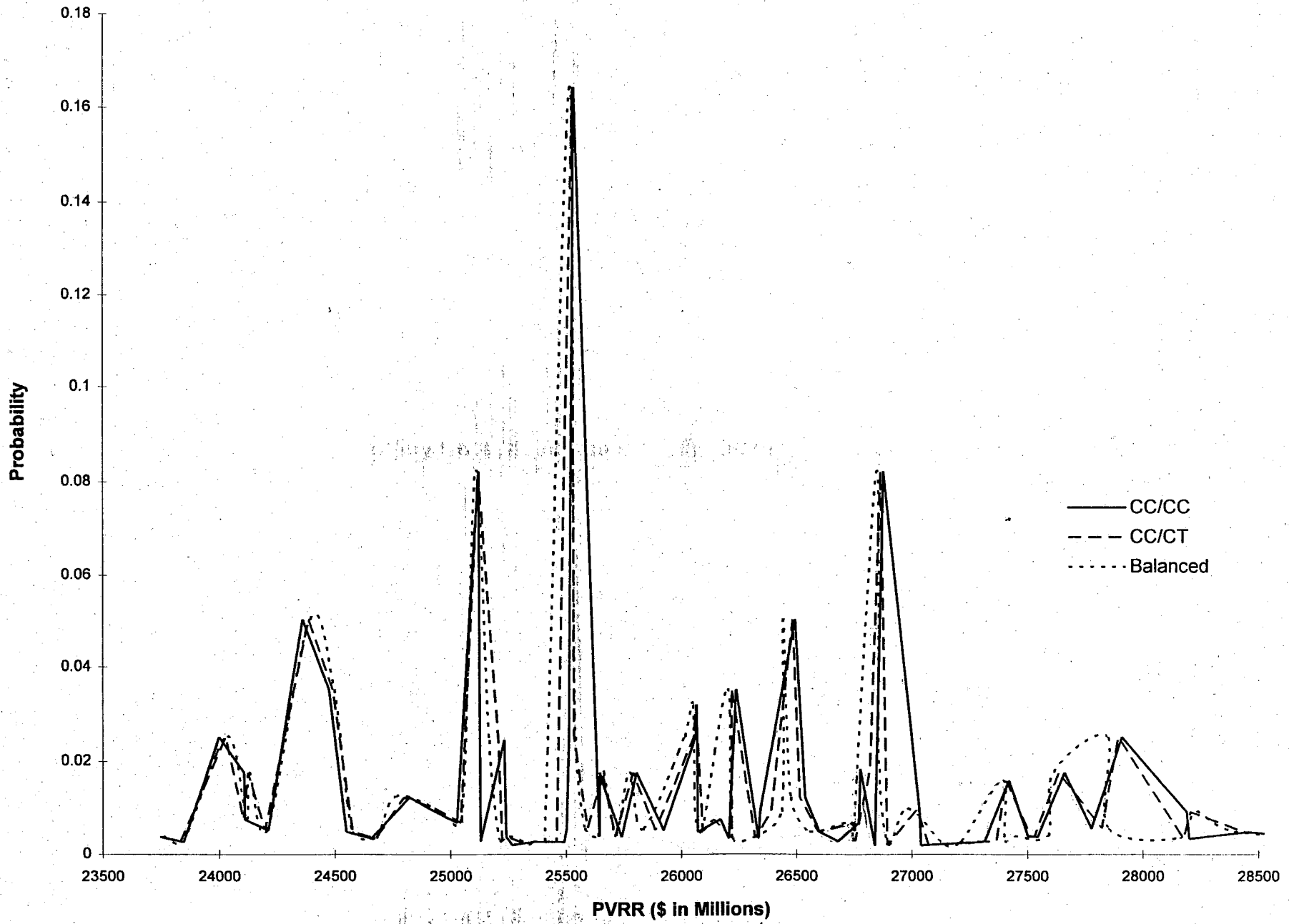
Utility Cost Histogram for 2008 Resource Decision



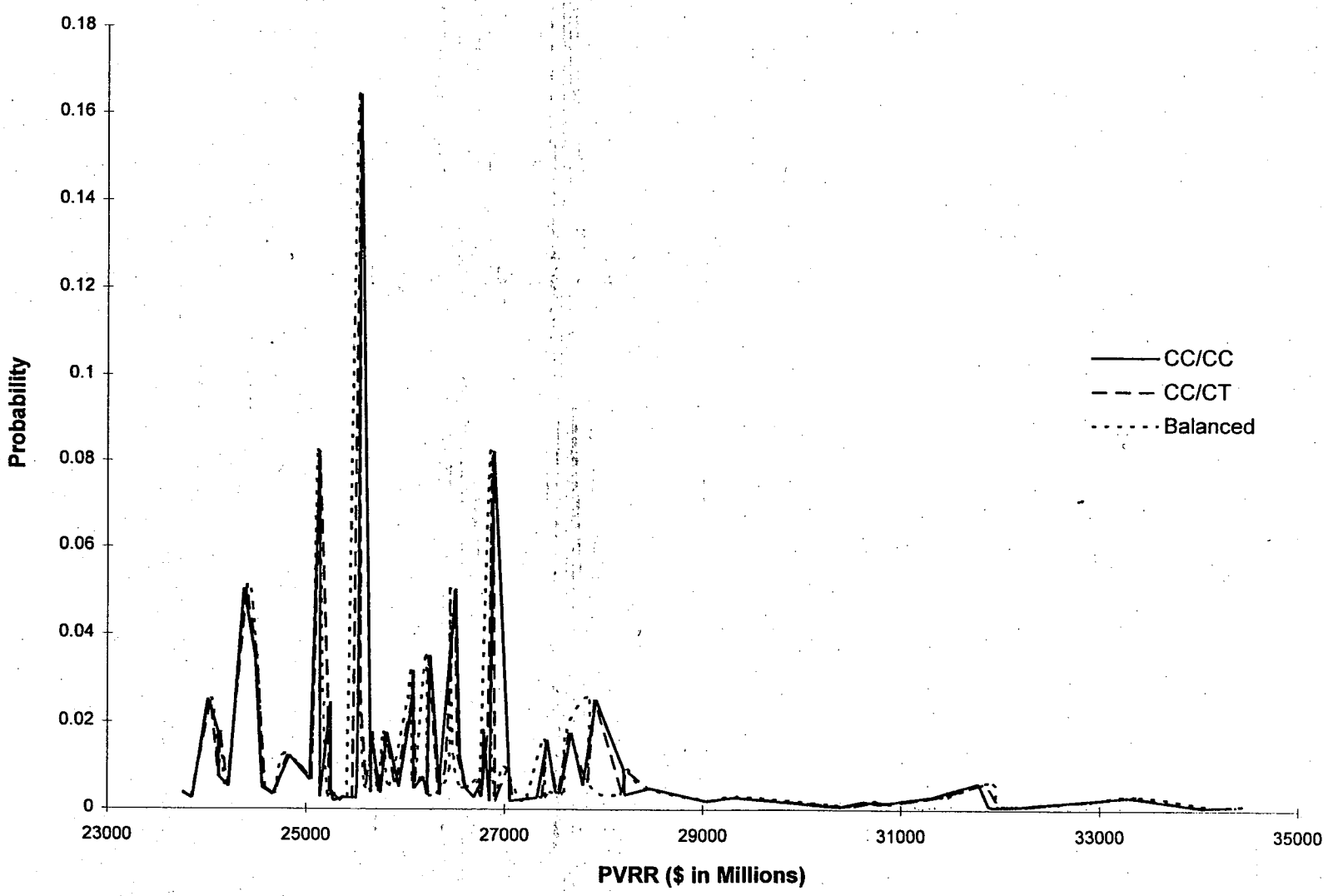
Levelized Average System Rates Histogram for 2008 Resource Decision



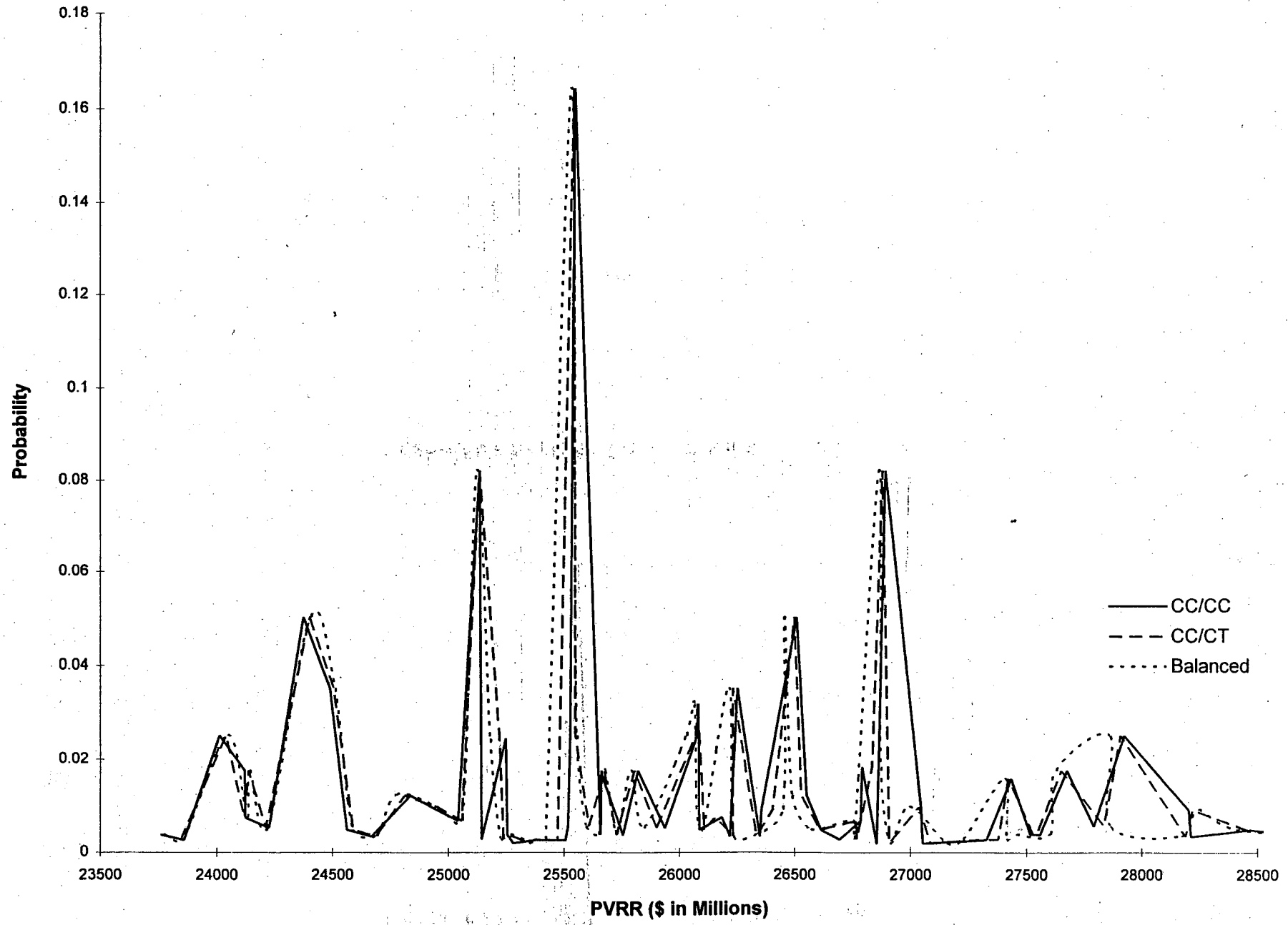
Utility Cost Histogram for 2008 Resource Decision



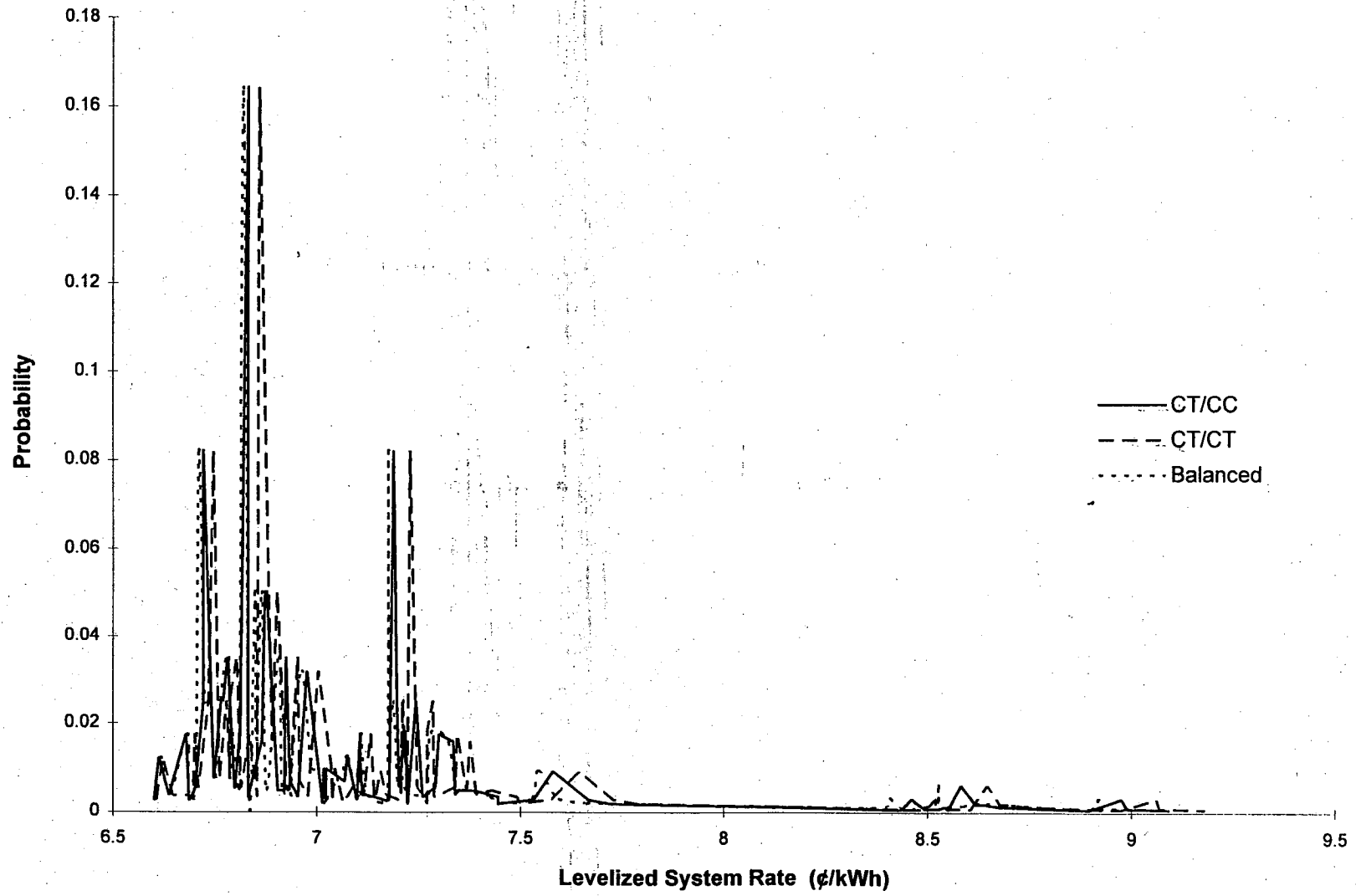
Total Resource Cost Histogram for 2008 Resource Decision



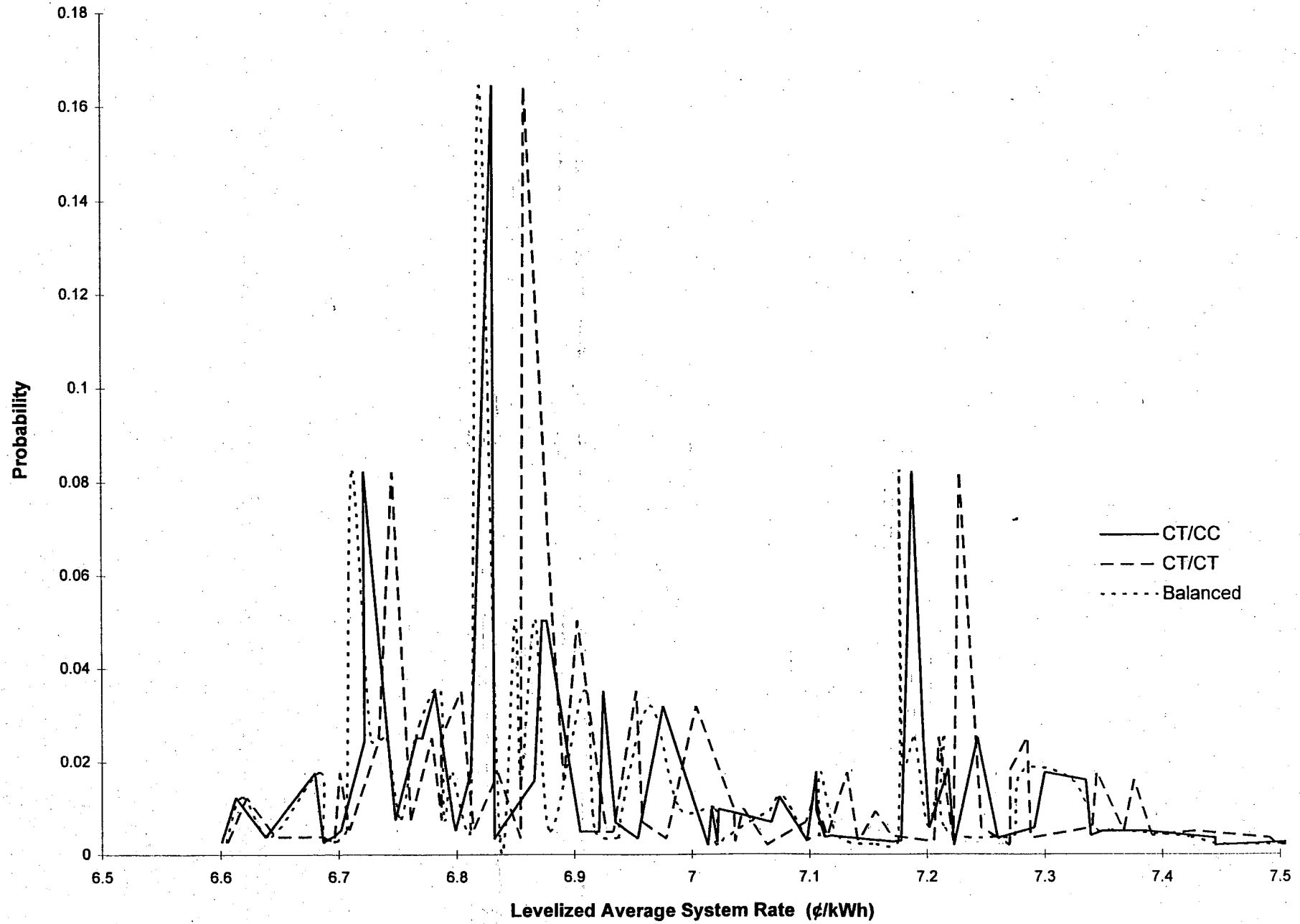
Total Resource Cost Histogram for 2008 Resource Decision



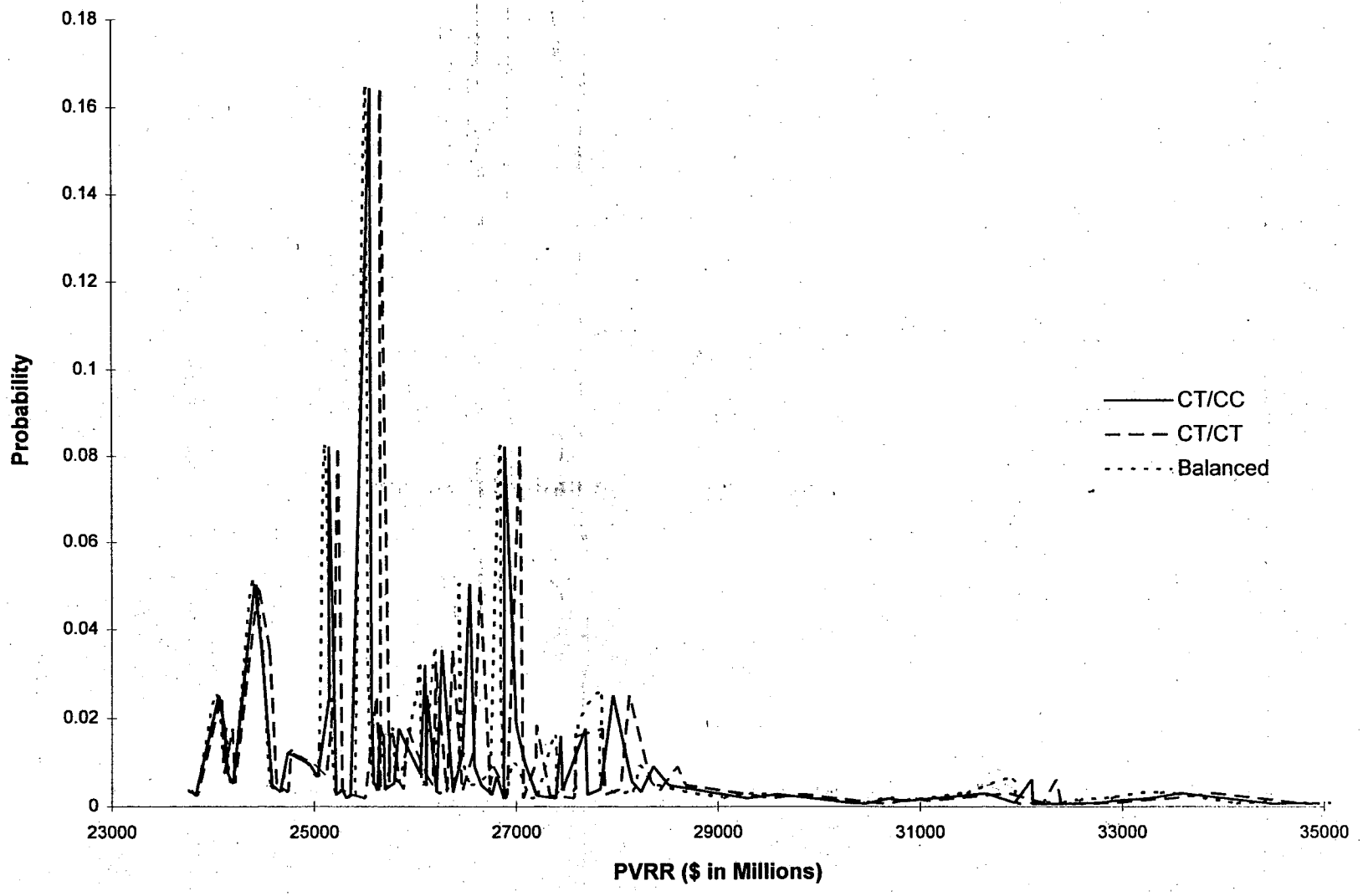
Levelized System Rates Histogram for 2008 Resource Decision



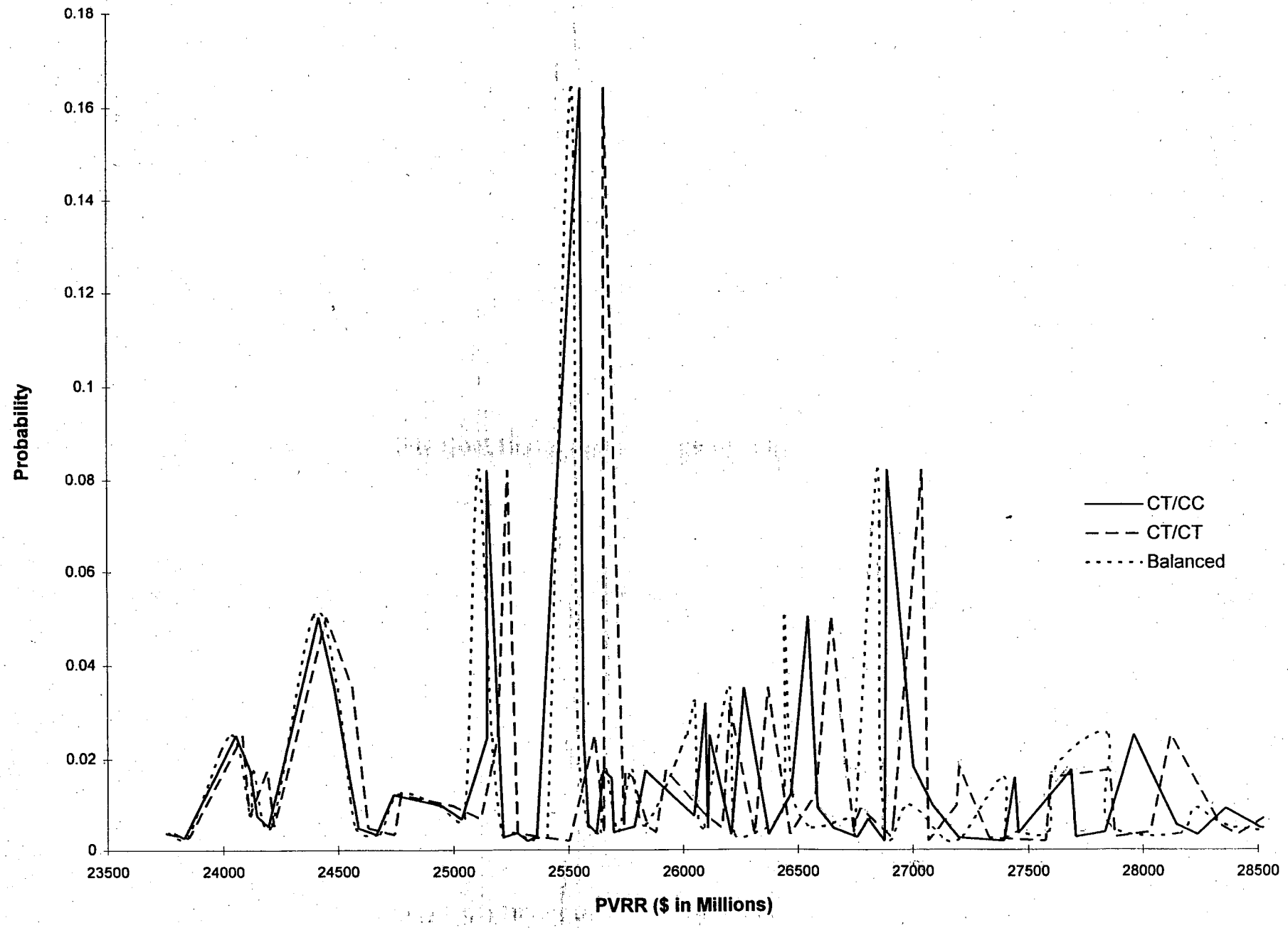
Levelized Average System Rates Histogram for 2008 Resource Decision



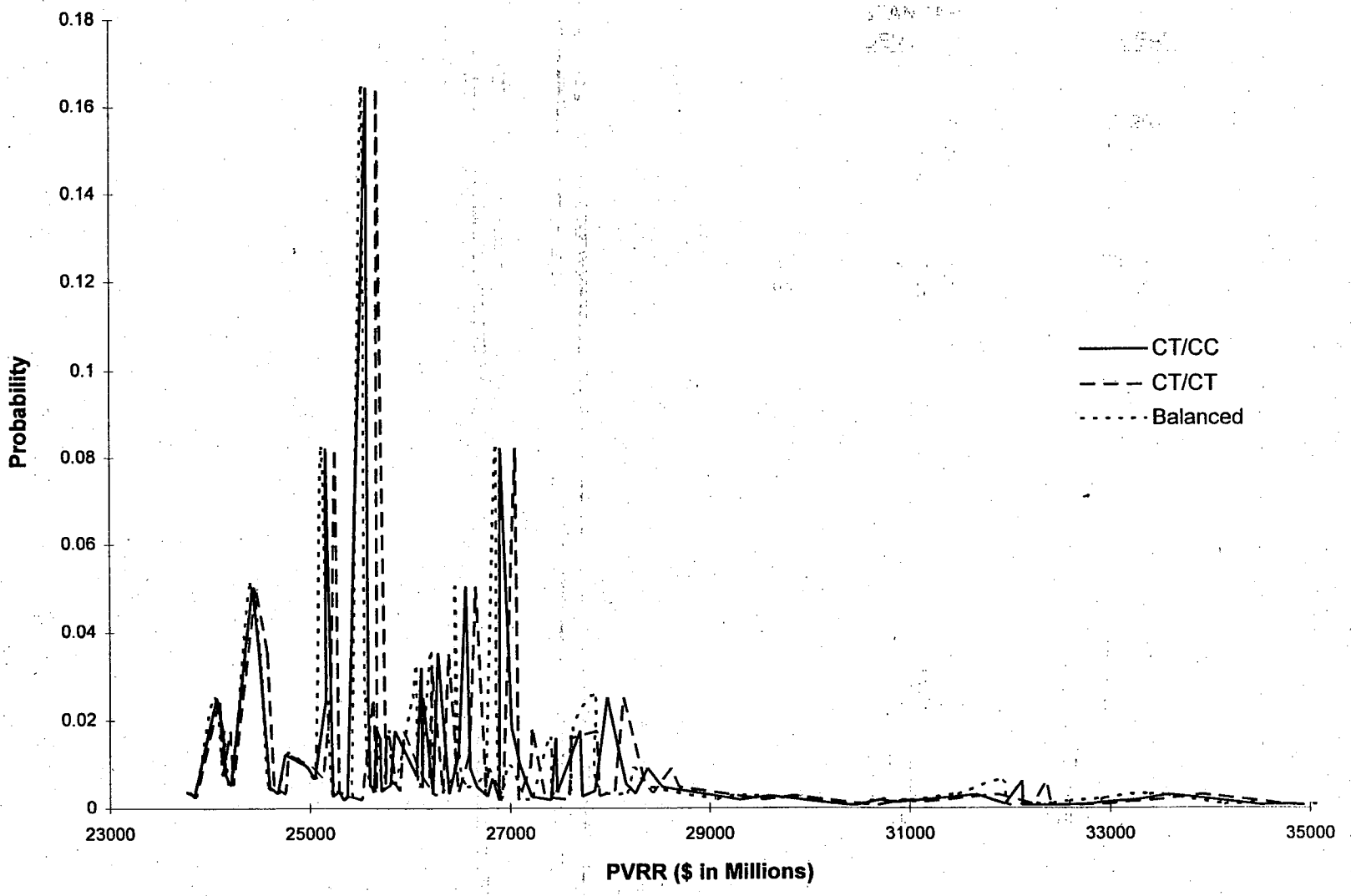
Utility Cost Histogram for 2008 Resource Decision



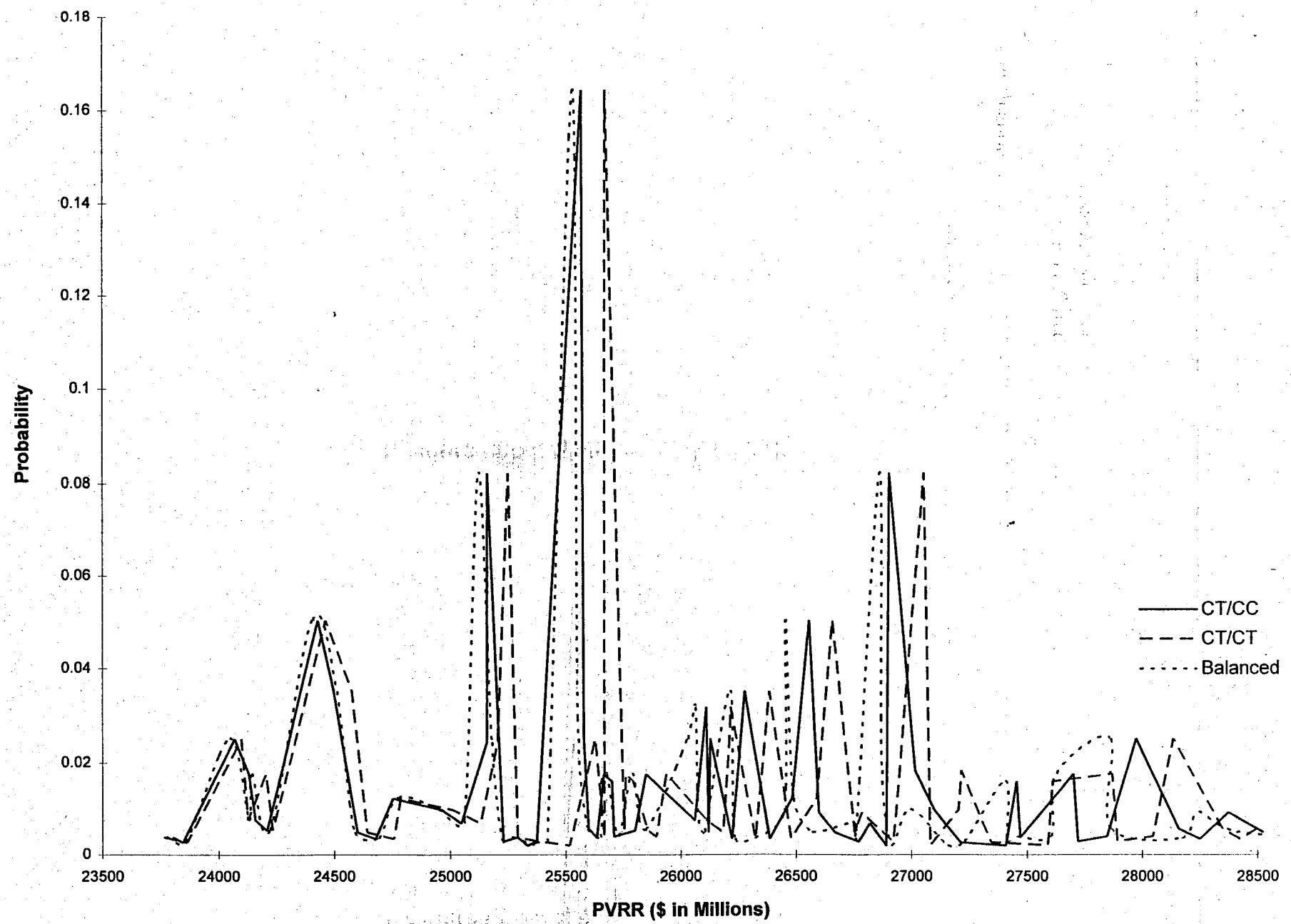
Utility Cost Histogram for 2008 Resource Decision



Total Resource Cost Histogram for 2008 Resource Decision



Total Resource Cost Histogram for 2008 Resource Decision



Schedule 2-50

MEAN AND STANDARD DEVIATION*

STRATEGY	LEVELIZED AVERAGE SYSTEM RATES (¢/kWh) MEAN	LEVELIZED AVERAGE SYSTEM RATES (¢/kWh) STANDARD DEVIATION	UTILITY COST ($ in Millions) MEAN	UTILITY COST ($ in Millions) STANDARD DEVIATION	TOTAL RESOURCE COST ($ in Millions) MEAN	TOTAL RESOURCE COST ($ in Millions) STANDARD DEVIATION
DSM DECISION:						
DSM	6.979	0.335	25,977.92	1,427.89	25,991.49	1,427.89
NO DSM	6.973	0.335	26,071.87	1,434.37	26,071.87	1,434.37
EARLY 2000s RESOURCE DECISION:						
CC	6.980	0.329	25,983.27	1,421.58	25,996.84	1,421.58
BALANCE of CT & CC	6.979	0.335	25,977.92	1,427.89	25,991.49	1,427.89
CT	6.991	0.343	26,024.19	1,469.47	26,037.75	1,469.47
LATE 2000s RESOURCE DECISION: (EARLY 2000s CC)						
CC	6.980	0.329	25,983.27	1,421.58	25,996.84	1,421.58
BALANCE of CT & CC	6.979	0.335	25,977.92	1,427.89	25,991.49	1,427.89
CT	6.980	0.333	25,985.02	1,425.05	25,998.58	1,425.05
LATE 2000s RESOURCE DECISION: (EARLY 2000s CT)						
CC	6.991	0.343	26,024.19	1,469.47	26,037.75	1,469.47
BALANCE of CT & CC	6.979	0.335	25,977.92	1,427.89	25,991.49	1,427.89
CT	7.019	0.354	26,127.58	1,514.50	26,141.14	1,514.50

* Results for the mean values may differ slightly from the expected value results due to rounding. This table used MIDAS reported results to three and two decimal places. The expected values are computed internally by MIDAS and use values with more decimal places. All values cover the period, 1996-2015, with a 10 year extension period. The cost evaluation criteria are expressed as a 1996 present value of revenue requirements.

Summary of the Scenario Analysis

The scenario analysis consisted of three scenarios - high growth, nominal growth and low growth. The preferred all supply strategy and the preferred strategy with DSM were compared under these three scenarios. Each scenario used assumptions which were consistent with the economic trend suggested by the scenario. The results indicate that the strategy with DSM is preferred over the all supply strategy when the total resource cost test is used as the evaluation criteria. Using the levelized average system rates test as the evaluation criteria would cause the all supply strategy to be preferred.

The following page contains a table which summarizes these results.

Scenario Analysis
Strategy Comparison*

Levelized Average System Rates (¢/kWh)

Strategy	Scenario		
	Nominal	Low	High
All Supply	0	0	0
DSM	0.003	0.003	0.005

Utility Cost ($ in Millions)

Strategy	Scenario		
	Nominal	Low	High
All Supply	107.81	73.73	99.02
DSM	0	0	0

Total Resource Cost ($ in Millions)

Strategy	Scenario		
	Nominal	Low	High
All Supply	94.19	60.76	85.26
DSM	0	0	0

* The results shown for each scenario are the differences between the strategy cost and the low cost strategy expressed in either present value of revenue requirements or levelized rates over the period, 1996-2025.

Summary of DSM Load Impact Sensitivity

A DSM sensitivity was performed to determine the impact of changing the load impact of each DSM program. The load impact of each DSM program was increased and decreased by 20%. The expected value results were summarized and compared to the nominal case. The results indicate no change from the nominal case except for the 20% increase case. In that case, the preferred plan is essential equal in cost (total resource cost test) to the all CC units in the early 2000's and CT units in the late 2000's.

These results indicate that the level of DSM does not seem to have a significant impact on the selection of CC and CT units as future resources. Clearly, if more or less DSM is placed into the preferred strategy, it would have the effect of delaying or advancing and reducing or increasing the level of purchases in the early 2000's and advancing or delaying the timing of CT/CC units in the early 2000's.

The following pages contain tables which summarize the results described in the preceeeding paragraphs.

Expected Value Results

Strategy	Levelized System Rate (Levelized ¢/kWh)	Utility Cost (30 Yr PVRR - $ in Millions)	Total Resource Cost (30 Yr PVRR - $ in Millions)
W No DSM Programs			
All CC Expansion	6.975	26,081.56	26,081.56
All CC thru 2008; All CT after 2008	6.973	26,073.05	26,073.05
Balanced- Alternating CT and CC additions	6.973	26,071.70	26,071.70
All CT thru 2007; All CC after 2007	6.987	26,124.64	26,124.64
All CT Expansion	7.015	26,232.01	26,232.01
W 10 DSM Programs			
All CC Expansion	6.980	25,983.10	25,996.66
All CC thru 2008; All CT after 2008	6.980	25,984.85	25,998.41
Balanced- Alternating CT and CC additions	6.979	25,977.75	25,991.31
All CT thru 2007; All CC after 2007	6.991	26,024.02	26,037.58
All CT Expansion	7.019	26,127.40	26,140.97
DIFFERENCE FROM LOWEST COST PLAN:			
W No DSM Programs			
All CC Expansion	0.002	103.81	90.25
All CC thru 2008; All CT after 2008	0	95.30	81.74
Balanced- Alternating CT and CC additions	0	93.95	80.39
All CT thru 2007; All CC after 2007	0.014	146.89	133.33
All CT Expansion	0.042	254.26	240.70
W 10 DSM Programs			
All CC Expansion	0.007	5.35	5.35
All CC thru 2008; All CT after 2008	0.007	7.10	7.10
Balanced- Alternating CT and CC additions	0.006	0	0
All CT thru 2007; All CC after 2007	0.018	46.27	46.27
All CT Expansion	0.046	149.65	149.66

Expected Value Results
DSM Load Impacts Increased by 20%

Strategy	Levelized System Rate (Levelized ¢/kWh)	Utility Cost (30 Yr PVRR - $ in Millions)	Total Resource Cost (30 Yr PVRR - $ in Millions)
W No DSM Programs			
All CC Expansion	6.975	26,081.56	26,081.56
All CC thru 2008; All CT after 2008	6.973	26,073.05	26,073.05
Balanced- Alternating CT and CC additions	6.973	26,071.70	26,071.70
All CT thru 2007; All CC after 2007	6.987	26,124.64	26,124.64
All CT Expansion	7.015	26,232.01	26,232.01
W 10 DSM Programs			
All CC Expansion	6.980	25,958.94	25,972.50
All CC thru 2008; All CT after 2008	6.978	25,953.85	25,967.42
Balanced- Alternating CT and CC additions	6.978	25,953.89	25,967.45
All CT thru 2007; All CC after 2007	6.990	25,997.59	26,011.15
All CT Expansion	7.019	26,104.98	26,118.55
DIFFERENCE FROM LOWEST COST PLAN:			
W No DSM Programs			
All CC Expansion	0.002	127.71	114.14
All CC thru 2008; All CT after 2008	0	119.20	105.63
Balanced- Alternating CT and CC additions	0	117.85	104.28
All CT thru 2007; All CC after 2007	0.014	170.79	157.22
All CT Expansion	0.042	278.16	264.59
W 10 DSM Programs			
All CC Expansion	0.007	5.09	5.08
All CC thru 2008; All CT after 2008	0.005	0	0
Balanced- Alternating CT and CC additions	0.005	0.04	0.03
All CT thru 2007; All CC after 2007	0.017	43.74	43.73
All CT Expansion	0.046	151.13	151.13

Expected Value Results
DSM Load Impacts Decreased by 20%

Strategy	Levelized System Rate (Levelized ¢/kWh)	Utility Cost (30 Yr PVRR - $ in Millions)	Total Resource Cost (30 Yr PVRR - $ in Millions)
W No DSM Programs			
All CC Expansion	6.975	26,081.56	26,081.56
All CC thru 2008; All CT after 2008	6.973	26,073.05	26,073.05
Balanced- Alternating CT and CC additions	6.973	26,071.70	26,071.70
All CT thru 2007; All CC after 2007	6.987	26,124.64	26,124.64
All CT Expansion	7.015	26,232.01	26,232.01
W 10 DSM Programs			
All CC Expansion	6.983	26,017.46	26,031.02
All CC thru 2008; All CT after 2008	6.983	26,016.35	26,029.92
Balanced- Alternating CT and CC additions	6.980	26,005.83	26,019.39
All CT thru 2007; All CC after 2007	6.991	26,047.63	26,061.20
All CT Expansion	7.019	26,152.95	26,166.51
DIFFERENCE FROM LOWEST COST PLAN:			
W No DSM Programs			
All CC Expansion	0.002	75.73	62.17
All CC thru 2008; All CT after 2008	0	67.22	53.66
Balanced- Alternating CT and CC additions	0	65.87	52.31
All CT thru 2007; All CC after 2007	0.014	118.81	105.25
All CT Expansion	0.042	226.18	212.62
W 10 DSM Programs			
All CC Expansion	0.010	11.63	11.63
All CC thru 2008; All CT after 2008	0.010	10.52	10.53
Balanced- Alternating CT and CC additions	0.007	0	0
All CT thru 2007; All CC after 2007	0.018	41.80	41.81
All CT Expansion	0.046	147.12	147.12