

**“Project Management Using Earned Value”
Case Study Solution 35.1**



35.1

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**Calculation of Cost
and Schedule Variances**

Exhibit 1 – Model 1 Transmission Control Account Variance Worksheet Solution

	A	M	J	J	A	S	O	N	D	J	F	M	
Incremental	Budget	4,500	5,500	9,500	8,500	6,500	3,500	20,700	20,700	200	5,200		
	Earned Value	4,500	500	5,500	6,500	7,000	5,000	9,200	20,700	2,200	18,700		5,000
	Actual Costs	4,500	4,600	7,600	7,600	6,800	6,000	8,800	13,900	22,900	16,400	3,400	1,400
	SV	0	-5,000	-4,000	-2,000	+500	+1,500	-11,500	0	+2,000	+13,500	0	+5,000
	CV	0	-4,100	-2,100	-1,100	+200	-1,000	+400	+6,800	-20,700	+2,300	-3,400	+3,600
Cumulative	Budget	4,500	10,000	19,500	28,000	34,500	38,000	58,700	79,400	79,600	84,800	84,800	84,800
	Earned Value	4,500	5,000	10,500	17,000	24,000	29,000	38,200	58,900	61,100	79,800	79,800	84,800
	Actual Costs	4,500	9,100	16,700	24,300	31,100	37,100	45,900	59,800	82,700	99,100	102,500	103,900
	SV	0	-5,000	-9,000	-11,000	-10,500	-9,000	-20,500	-20,500	-18,500	-5,000	-5,000	0
	CV	0	-4,100	-6,200	-7,300	-7,100	-8,100	-7,700	-900	-21,600	-19,300	-22,700	-19,100

Interpreting and Calculating Cost & Schedule Variances Solution

COMPARE			MEANING					
Schedule/Cost Performance			Schedule			Cost		
Budget	Earned Value	Actuals	ON	Ahead	Behind	ON	Under	Over
1. \$100	100	100	X			X		
2. 100	150	150		X		X		
3. 150	100	100			X	X		
4. 100	100	150	X					X
5. 100	150	200		X				X
6. 150	100	150			X			X
7. 150	150	100	X				X	
8. 100	150	100		X			X	
9. 200	150	100			X		X	