

fn = ITCOSTAH.xls						
Estimated Labor Costs for Formation of Proposed Federal Control Area/Metered Subsystem						
(Dollars in Thousands)						
Estimated Annual Costs						
Functional Area	Staffing	Software/ Licensing	Join CAISO as PTO	Join CAISO as MSS	Form Federal Control Area	
N0000						
Control Area Advisor	271		0	0	271	
N2000						
Support MV-90 Metering System	\$ 141	\$ 39	\$ 141	\$ 141	\$ 141	
Support Power Billing System	\$ 141	\$ 35	\$ 141	\$ 141	\$ 183	
Support Settlements/Energy Accounting	\$ 141	\$ 18	\$ 141	\$ 141	\$ 162	
Support Scheduling Systems	\$ 141	\$ 140	\$ 141	\$ 141	\$ 141	
Support Load Forecasting Systems	\$ 141	\$ 28	\$ 141	\$ 141	\$ 176	
Generation Forecasting System	\$ 141	\$ 25	\$ 141	\$ 141	\$ 141	
EAI (Middleware) Support	\$ 141	\$ 172	\$ 141	\$ 141	\$ 155	
SCADA/EMS	\$ 275	\$ 130	\$ 275	\$ 275	\$ 344	
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TOTAL	\$ 1,262	\$ 587	\$ 1,262	\$ 1,262	\$ 1,444	
INCREMENTAL INCREASE (LABOR)			\$ -	\$ -	\$ 182	
INCREMENTAL INCREASE (SOFTWARE LIC)			\$ -	\$ -	\$ -	
Estimated Increase in Labor Requirements between Marketing Plan and Control Area Implementation (provided by N2000)						
MV-90 Metering System - 100% Marketing Plan Activity						
Power Billing System - 30% increase for Control Area						
Settlements/Energy Accting - 15% increase for Control Area						
Scheduling Systems - 100% Marketing Plan Activity						
Load Forecasting - 25% increase for Control Area						
Generation Forecasting - 100% Marketing Plan Activity						
Middleware (EAI) -10% increase for Control Area						
SCADA/EMS - 25% increase for Control Area						

Estimated Annualized Capital Labor Costs for Formation of Proposed Federal Control Area/Metered Subsystem						
(Dollars in Thousands)						
				<u>Join CAISO as PTO</u>	<u>Join CAISO as MSS</u>	<u>Form Federal Control Area</u>
N2000						
Support MV-90 Metering System			\$ 153	\$ 153	\$ 153	\$ 153
Support Power Billing System			\$ 73	\$ 56	\$ 56	\$ 73
Support Settlements/Energy Accounting			\$ 120	\$ 104	\$ 104	\$ 120
Support Scheduling Systems			\$ 259	\$ 259	\$ 259	\$ 259
Support Load Forecasting Systems			\$ 167	\$ 133	\$ 133	\$ 167
Generation Forecasting System			\$ 167	\$ 133	\$ 133	\$ 167
EAI (Middleware) Support			\$ 474	\$ 431	\$ 431	\$ 474
SCADA/EMS			\$ 474	\$ 379	\$ 379	\$ 474
TOTAL			\$ 1,887	\$ 1,650	\$ 1,650	\$ 1,887
INCREMENTAL INCREASE				\$ -	\$ -	\$ 237
Estimated Increase in Labor Requirements between Marketing Plan and Control Area Implementation (provided by N2000)						
MV-90 Metering System - 100% Marketing Plan Activity						
Power Billing System - 30% increase for Control Area						
Settlements/Energy Accting - 15% increase for Control Area						
Scheduling Systems - 100% Marketing Plan Activity						
Load Forecasting - 25% increase for Control Area						
Generation Forecasting - 100% Marketing Plan Activity						
Middleware (EAI) -10% increase for Control Area						
SCADA/EMS - 25% increase for Control Area						

Identification of Annualized Costs for Cottonwood/Round Mt Substation Acquisitions							
Interest Rate is 5.625 Percent							
Number of Yrs/Cost Type							
Transmission Lines - 50 years							
Substations - 30 years							
Communications - 25 years							
Other Costs - 50 years							
Round Mountain Substation Acquisition							
Environmental (50)	4						
Design (50)	181						
Communication Facilities (25)	4						
Project Management (50)	14						
Construction Management (50)	43						
Land (50)	1						
Substation Contract (30)	1,399						
Commissioning (50)	60						
Contingencies (50)	378						

Total Annualized Costs	2,086						
Cottonwood Substation Acquisition							
Environmental (50)	4						
Design (50)	57						
Communication Facilities (25)	4						
Project Management (50)	11						
Construction Management (50)	29						
Land (50)	2						
Substation Contract (30)	440						
Commissioning (50)	19						
Contingencies (50)	126						

Total Annualized Costs	691						

