Emergency Management Security Network – Phase 1 Project ID: D52110SN

Leadership Group: Finance/Admin								
Department: Emergency Management		Divisio	n: Emerg	ency Manager	ment			
Project Sponsor: Thom Hardesty	Date Requested	: 02/15/2	22	PM Custom	er No . 110			
Request Type: New Development								
IT Team Name: Public and Environment	ntal Services	IT Tean	n No: 5					
Project Manager/Leader:Stu SmithAccount95011AccountNumber:Description	Emergency M	lanagem	nent	Customer Name:	Emergency Management			
Grant Funded? Yes No		date? date So	Yes urce:	No XX				

Project Goal

To implement an infrastructure improvement project that will update the Building Safety network so that it will be migrated to the IT network.

Business Objective

The main business objective of the Emergency Management Security Network project is to provide the Homeland Security/Emergency Management Department connectivity that is tied to the Information Technology Department network to ensure reliable access in case of an emergency situation.

Major Deliverables

- Detailed Project Plan
- Implementation Plan
- Application and/or System Requirements
- Technical Architecture Diagram(s)
- User Acceptance Test Plan
- Disaster Recovery Toolkit
- Service Level Agreement
- Service Center Knowledge Documents
- Training/User Manuals

Approach

- Develop Detailed Project Plan
- Document system requirements
- Determine and document system architecture and diagram
- Assess User Hardware and Software Requirements
- Conduct Tech Review
- Order hardware and software if needed
- Develop Implementation Plan

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- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Research & Analysis

Research Recommendation

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 25+

Divisions Homeland Security/Emergency Management

Leadership Groups Finance/Admin

<u>Risk</u>

Business Environment Medium – Project will require some changes to existing business

processes.

Technical Environment Medium – Previously implemented technologies with new aspects

and/or new requirements.

Assumptions

Staffing IT Staffing: resources will be available for the hours indicated per the attached

project plan.

Other Staffing: additional staffing will be available as follows:

Role:	<u>Name</u>	Hours per Day
Sponsor	Thomas Hardesty	As Needed

Emergency Management Security Ne	twork – Phase 1	Project ID: D52110SN
Business Lead	Rob Seeley	As Needed
Subject Matter Expert	Tracey McGee	As Needed
Facilities •		
TechnicalInteraction between OCIT Netwo	ork/Telecom Teams and Ho	omeland Security.
FundingInformation Technology/Grants		
Other		
Priority TBD		
Constraints		
Exclusions		

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PROJECT PHASE AUTHORIZATION

Phase(s): Project Management, Define Business Requirements, Design System Architecture, and Develop Application								
Total Estimated Application Services	Hours: 1,262							
Total Estimated Technical Systems	Hours: 1,446							
Total Estimated CLEMIS	Hours:							
Total Estimated Internal Services	Hours:							
IT Application Services Division Manager Approva	Date:							
IT Technical Systems Division Manager Approval:		Date:						
IT CLEMIS Division Manager Approval:		Date:						
IT Internal Services Division Manager Approval:		Date:						
IT Management Approval:								
Approved:	Yes No	Date:						
Reason:								
Project Sponsor Approval:								
Title:		Date:						

PROJECT SUMMARY

Authorized Development (see above)	Hours: 2,708	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 2,708	Cost: \$446,820

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PROJECT COMPLETION AUTHORIZATION

Customer Acceptance of Product:	
Title:	Date:
Project Office Review:	Date:

Emergency Management Security Network – Size Estimate (+/- 10% to 50%)

	Туре	ID	Task Name	Estimated Hours
1	Phase	000000	■ PROJECT MANAGEMENT	545
2	Phase	200000	■ DEFINE BUSINESS REQUIREMENTS	814
3	Phase	300000	■ DESIGN SYSTEM ARCHITECTURE	572
4	Phase	500000	■ DEVELOP APPLICATION	777
5	Phase	600000	■ IMPLEMENTATION PHASE	
6	Phase	800000	■ POST IMPLEMENTATION SUPPORT	
7				
1				2,708

Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	0	0	0	0	0	0	0
Costs:							
Development Services Subtotal:	446,820	470,022	13,200	16,500	13,200	16,500	976,242
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	0	0	0	0	0	0	0
Infrastructure Subtotal	277,625	34,625	34,625	34,625	34,625	34,625	450,750
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	0	0	0	0	0	0	0
Annual Statistics:							
Annual Total Savings	0	0	0	0	0	0	0
Annual Total Costs	724,445	504,647	47,825	51,125	47,825	51,125	1,426,992
Annual Return on Investment	(724,445)	(504,647)	(47,825)	(51,125)	(47,825)	(51,125)	(1,426,992)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	(, , , , , , ,
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	724,445	1,229,092	1,276,917	1,328,042	1,375,867	1,426,992	1,426,992
Cumulative Return on Investment	(724,445)	(1,229,092)	(1,276,917)	(1,328,042)	(1,375,867)	(1,426,992)	(1,426,992)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							NOT ATBACK
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Deficition Reviewed by Project Sportsof	_		+	Date:			
Costs (including IT Resources) Reviewed By Information Technology Project Manager				Date: ,			

Return on Investment Analysis

Savings Detail

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Reallocation of time management spent							
on working around the inefficiencies of							
the current system to other duties.	Intangible Benefit		ANN			0	
Integration of information sharing and							
resource request processing between							
the EOC and emergency responders in							
the field	Intangible Benefit					0	
Ensuring the availability of multiple							
redundant communications systems	Intangible Benefit					0	
Improved security, availibility, and							
redundancy of critical systems.	Intangible Benefit					0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	

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Return on Investment Analysis

Savings Detail

		Aff	ect	s Pr	roje	ct R	Oľ	?		Po	tential Savii	Potential Savings Extensions			
Benefit/Savings Description	Project Savings Category	Y1	Y2	Y 3	Y 4	Y5	Y	/ 6	Y1	Y2	Y3	Y4	Y5	Y6	
Reallocation of time management spent on working around the inefficiencies of the current system to other duties. Integration of information sharing and resource request processing between	Intangible Benefit														
the EOC and emergency responders in the field Ensuring the availability of multiple	Intangible Benefit														
	Intangible Benefit						ļ							 	
redundancy of critical systems.	Intangible Benefit														
							l								
							ļ								
														i	

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Return on Investment Analysis

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
Tangible Benefits Subtotal:							
Cost Avoidance:							
Cost Avoidance Subtotal:							
Intangible Benefit:							
Reallocation of time management spent on							
working around the inefficiencies of the							
current system to other duties.							
Integration of information sharing and							
resource request processing between the							
EOC and emergency responders in the field							
Ensuring the availability of multiple							
redundant communications systems							
Improved security, availibility, and							
redundancy of critical systems.							
Savings Total:							
Javings rotal.							

Return on Investment Analysis

Cost Detail

								Af	fect	s Pro	oiec	t RC	OI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual						[
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs			5,416	165	893,640	1.015	Х	Χ				П
IT Hours - System Maintenance	Development Svcs			40	165	6,600			Χ	Х	Χ	Х	Х
IT Hours - Customer Support	Development Svcs			40	165	6,600			Х	Х	Х	Х	Х
IT Hours - Planned Maintenance	Development Svcs			20	165	3,300			Х		Х		Х
User Hours - New Development	Development Svcs					0							
User Hours - PTNE/OT	Development Svcs					0							
Contractor Professional Services	Development Svcs					0							
PC System - Acquisition	Hardware				814	0							
PC System - Maintenance	Hardware				2,304	0							
Skyware 1.8 Meter Dish	Hardware				4,659	0							
10 Watt Power Inserter	Hardware				475	0							
Notebook - Acquisition	Hardware				1,223	0							
Notebook - Maintenance	Hardware				2,372	0							•
Tablet Notebook - Acquisition	Hardware				2,012	0							
Tablet Notebook - Maintenance	Hardware				,	0							
Laserprinter - Acquisition	Hardware				1,432	0							
Laserprinter - Maintenance	Hardware				1,104	0							[]
Image Workstations - Acquisition	Hardware					0							
Image Workstations - Maintenance	Hardware				3,496	0							
PC Maintenance User Owned	Hardware				2,304	0							
Printer Maintenance User Owned	Hardware				1,072	0							
File Space (100GB)	Hardware		ANN		173	0							
Internet Bandwidth per MB	Hardware		ANN		750	0							
Package Software - Acquisition	Software					0							[]
Package Software - Maintenance	Software				240	0							
Business Objects Access	Software					0							
Term Emulation SFTW-Acquisition	Software					0							
Term Emulation SFTW-Maintenance	Software					0							
Server - Acquisition/Upgrade	Infrastructure				8,000	0							
Server - Maintenance	Infrastructure				360	0							
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0							[]
Server Sftwre - Maintenance	Infrastructure					0							
Server Rack Mount	Infrastructure				400	0							
Oracle Enterprise Per Processor -													
Includes Year 1 Maintenance	Infrastructure				21,372	0							!
Oracle Enterprise Per Processor - Year					,								
2 and Beyond	Infrastructure				3,432	0							: I

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Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	oiec	t RC	1?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				-,		
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Υ3	Y4	Y5	Y6
SQL Server Enterprise - Per Processor													
(4 cores) - Purchased Sept 2016-Aug												, 1	,
2017 - Includes Maintenance thru Aug												, 1	•
2019	Infrastructure				24,533	0						į į	,
SQL Server Enterprise - Per Processor													
(4 cores) - Purchased Sept 2017-Aug												, 1	•
2018 - Includes Maintenance thru Aug												, ,	
2019	Infrastructure				20,759	0						<u> </u>	
SQL Server Enterprise - Per Processor												ı İ	•
(4 cores) - Purchased Sept 2018-Aug												į į	,
2019 - Includes Maintenance thru Aug												į	,
2019	Infrastructure				16,985	0							
SQL Server Enterprise - Maintenance,												, 1	
Per Processor (4 cores) - Sept 2019												, ,	
and Beyond	Infrastructure				4,218	0						<u> </u>	
SQL Server Standard - Per Processor												ı İ	
(4 cores) - Purchased Sept 2016-Aug												ı	
2017 - Includes Maintenance thru Aug												į	
2019	Infrastructure				6,398	0							
SQL Server Standard - Per Processor												, ,	
(4 cores) - Purchased Sept 2017-Aug												į į	
2018 - Includes Maintenance thru Aug												. 1	
2019	Infrastructure				5,414	0							
SQL Server Standard - Per Processor												, ,	
(4 cores) - Purchased Sept 2018-Aug												. 1	
2019 - Includes Maintenance thru Aug												ı İ	
2019	Infrastructure				4,429	0							
SQL Server - Standard Maintenance,												į	
Per Processor (4 cores) - Sept 2019												, 1	
and Beyond	Infrastructure				1,100	0							
SSL Certificate	Infrastructure		ANN	1	845	845		Х	Χ			Х	Χ
Internet Access	Infrastructure		ANN	1	180	180		Х	Х	Х	Х	Х	Χ
App Code Directories on Consolidated												, 1	
IIS Server (Virtual)	Infrastructure		ANN		415	0							
Database (5 GB) on Consolidated SQL					[. 1	
Instance Server	Infrastructure		ANN		930	0							
Database Instance (125 GB DB) on												, 7	
Consolidated SQL Server	Infrastructure		ANN		2,395	0							
Database SQL Maint Server	Infrastructure		ANN		834	0						, 7	

ROI - Emergency Management Security Network D52110SN (1)/Cost Detail

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Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	ojec	t RC) ?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				ľ	1	[
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
Database SQL Server Physical	Infrastructure		ANN		19,158	0					į		
DB Maintenance (Annual Cycle \$610)	Infrastructure		ANN		610	0						!	
DB Maintenance (Semi-Annual Cycle											1	•	
\$1220)	Infrastructure		ANN		1,220	0					ĺ	1	
DB Maintenance (Semi-Annual Cycle											į	ĺ	
\$2440)	Infrastructure		ANN		2,440	0					į	Í	<u> </u>
Dedicated Virtual Server	Infrastructure		ANN		4,150	0							
DB Instance Setup	Infrastructure				976	0					į	•	
DBA MS SQL Database Creation on											į	•	ĺ
Exisitng Instance	Infrastructure				366	0					į	į	į
Project Staff Training	Training					0					ĺ	ĺ	ĺ
User Training	Training					0					i	1	-
ASE Line cost	Infrastructure		ANN	28	1,200	33,600		Х	Х	Х	Х	Х	Х
PoE Solution	Infrastructure		ANN	1	10,000	10,000		Х			•	:	į
UPS backup PS (Critical Sites Only)	Infrastructure		ANN	10	900	9,000		х			İ		
Network Switch	Infrastructure		ANN	40	5,600	224,000		х			İ	[
											•	ĺ	İ

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Return on Investment Analysis

Cost Detail

				Potential Co	st Extensions		
	Project Cost	:			ľ		
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs	446,820.00	453,522.30				
IT Hours - System Maintenance	Development Svcs		6,600.00	6,600.00	6,600.00	6,600.00	6,600.00
IT Hours - Customer Support	Development Svcs		6,600.00	6,600.00	6,600.00	6,600.00	6,600.00
IT Hours - Planned Maintenance	Development Svcs		3,300.00		3,300.00	Ĭ	3,300.00
User Hours - New Development	Development Svcs						
User Hours - PTNE/OT	Development Svcs						
Contractor Professional Services	Development Svcs				İ	İ	
PC System - Acquisition	Hardware	İ	ĺ		Î	Ì	
PC System - Maintenance	Hardware	į					
Skyware 1.8 Meter Dish	Hardware						
10 Watt Power Inserter	Hardware	Ì			Î	Ì	
Notebook - Acquisition	Hardware	ļ					
Notebook - Maintenance	Hardware						
Tablet Notebook - Acquisition	Hardware						
Tablet Notebook - Maintenance	Hardware	i		Ì	Ì		
Laserprinter - Acquisition	Hardware	ļ					
Laserprinter - Maintenance	Hardware						
Image Workstations - Acquisition	Hardware	İ					
Image Workstations - Maintenance	Hardware	ŀ	 				
PC Maintenance User Owned	Hardware						
Printer Maintenance User Owned	Hardware						
File Space (100GB)	Hardware	İ	ĺ		Î	Ì	
Internet Bandwidth per MB	Hardware						
Package Software - Acquisition	Software						
Package Software - Maintenance	Software				ļ		
Business Objects Access	Software						
Term Emulation SFTW-Acquisition	Software						
Term Emulation SFTW-Maintenance	Software						
Server - Acquisition/Upgrade	Infrastructure	ľ			ļ		
Server - Maintenance	Infrastructure						
Server Sftwre - Acquisition/Upgrade	Infrastructure						
Server Sftwre - Maintenance	Infrastructure						
Server Rack Mount	Infrastructure						
Oracle Enterprise Per Processor -							
Includes Year 1 Maintenance	Infrastructure				İ		
Oracle Enterprise Per Processor - Year				İ	İ	İ	
2 and Beyond	Infrastructure						

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Return on Investment Analysis

Cost Detail

		I		Potential Co	st Extensions		
	Project Cost						
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise - Per Processor							
(4 cores) - Purchased Sept 2016-Aug							
2017 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Enterprise - Per Processor			į		į		
(4 cores) - Purchased Sept 2017-Aug							
2018 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Enterprise - Per Processor							
(4 cores) - Purchased Sept 2018-Aug							
2019 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Enterprise - Maintenance,							
Per Processor (4 cores) - Sept 2019		ļ	ļ		ļ		
and Beyond	Infrastructure						
SQL Server Standard - Per Processor							
(4 cores) - Purchased Sept 2016-Aug							
2017 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Standard - Per Processor			i	İ	i		
(4 cores) - Purchased Sept 2017-Aug			į		į		
2018 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Standard - Per Processor				İ			
(4 cores) - Purchased Sept 2018-Aug		İ	į	į	į		
2019 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server - Standard Maintenance,		Î		Î	Î		
Per Processor (4 cores) - Sept 2019							
and Beyond	Infrastructure						
SSL Certificate	Infrastructure	845.00	845.00	845.00	845.00	845.00	845.00
Internet Access	Infrastructure	180.00	180.00	180.00	180.00	180.00	180.00
App Code Directories on Consolidated							
IIS Server (Virtual)	Infrastructure						
Database (5 GB) on Consolidated SQL		ĺ	Î	Î			
Instance Server	Infrastructure		İ		į		
Database Instance (125 GB DB) on							
Consolidated SQL Server	Infrastructure						
Database SQL Maint Server	Infrastructure			Ì			

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Cost Detail

		Potential Cost Extensions									
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6				
Database SQL Server Physical	Infrastructure	i	į	i	i	i					
DB Maintenance (Annual Cycle \$610)	Infrastructure										
DB Maintenance (Semi-Annual Cycle											
\$1220)	Infrastructure		į								
DB Maintenance (Semi-Annual Cycle		İ	i	İ	İ	İ					
\$2440)	Infrastructure										
Dedicated Virtual Server	Infrastructure										
DB Instance Setup	Infrastructure		İ								
DBA MS SQL Database Creation on			!		İ						
Exisitng Instance	Infrastructure		į			ļ					
Project Staff Training	Training		į								
User Training	Training	İ	i	İ	İ	İ					
ASE Line cost	Infrastructure	33,600.00	33,600.00	33,600.00	33,600.00	33,600.00	33,600.00				
PoE Solution	Infrastructure	10,000.00	1	1	1		•				
UPS backup PS (Critical Sites Only)	Infrastructure	9,000.00	į								
Network Switch	Infrastructure	224,000.00									

Return on Investment Analysis

Cost Summary

Development Services: IT Hours - New Development IT Hours - System Maintenance IT Hours - Customer Support IT Hours - Planned Maintenance User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish 10 Watt Power Inserter	446,820 446,820	453,522 6,600 6,600 3,300 470,022	6,600 6,600	6,600 6,600 3,300 16,500	6,600 6,600 13,200	6,600 6,600 3,300	900,342 33,000 33,000 9,900
IT Hours - System Maintenance IT Hours - Customer Support IT Hours - Planned Maintenance User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish		6,600 6,600 3,300	6,600	6,600 3,300	6,600	6,600 3,300	33,000 33,000 9,900
IT Hours - System Maintenance IT Hours - Customer Support IT Hours - Planned Maintenance User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish		6,600 6,600 3,300	6,600	6,600 3,300	6,600	6,600 3,300	33,000 33,000 9,900
IT Hours - Planned Maintenance User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820	3,300		3,300		3,300	33,000 9,900
IT Hours - Planned Maintenance User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820		13,200		13,200	3,300	9,900
User Hours - New Development User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820		13,200		13,200		
User Hours - PTNE/OT Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820	470,022	13,200	16,500	13,200	16,500	976,242
Contractor Professional Services Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820	470,022	13,200	16,500	13,200	16,500	976,242
Development Services Subtotal: Hardware: Skyware 1.8 Meter Dish	446,820	470,022	13,200	16,500	13,200	16,500	976,242
Hardware: Skyware 1.8 Meter Dish	110,020		10,200	10,000	10,200	10,000	0.0,2.12
Skyware 1.8 Meter Dish							
10 Water ower inserter							
Hardware Subtotal:							
Software:							
Package Software - Maintenance							
Software Subtotal:							
Infrastructure:							
SSL Certificate	845	845	845	845	845	845	5,070
Internet Access	180	180	180	180	180	180	1,080
ASE Line cost	33,600	33,600	33,600	33,600	33,600	33,600	201,600
PoE Solution	10,000	0	0	0	0	0	10,000
UPS backup PS (Critical Sites Only)	9,000	0	0	0	0	0	9,000
Network Switch	224,000	0	0	0	0	0	224,000
Infrastructure Subtotal	277,625	34,625	34,625	34,625	34,625	34,625	450,750
Training:							
Training Cubtatal							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	724,445	504,647	47,825	51,125	47,825	51,125	1,426,992

ROI - Emergency Management Security Network D52110SN (1)/Cost Summary

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Return on Investment Analysis

Assumptions

Date	Assumption Description
29-May-22	Traffic and Bandwidth analysis
29-May-22	IPAM/DNS naming
29-May-22	WiFi camera security network will be needed
29-May-22	Need to define the security network (IP Address mgt)
29-May-22	All cameras will be higher resolution than previous (more bandwidth)
29-May-22	POE solution needed
29-May-22	UPS devices may need replacement on critical site (assuming 10)
09-Jun-22	Possibly replace 40 switches

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