

Capital – Shared Services - Security

Project Name	Corporate Security Access Control, CCTV, and equipment
Work Plan Category	Strat - Public & Employee Safety
Project Manager	Dan Clemens
Project Status	Not Started
Estimated Service Date	Various completion dates; total by Dec 31, 2017

Work Description:

Automated electronic card access is a prime security control for allowing access/egress to our facilities. Access Control provides a documented and viewable record of entry/exits at company facilities. As the company continues to evaluate effective security measures to protect its assets, there is a need to expand the use of automated card access to additional important corporate facilities. Corporate Security has identified thirteen (13) sites (Bruckner Blvd, Cleveland Street, College Point, Neptune Ave, E110 Street, Eastview, Victory Blvd, 4 Irving parking lot, E. 16 Street, 30 Worth Street, Farrington Street, West 28th Street, and the Learning Center) that are in need of an access control system that exceeds those currently in place. This five-year proposed implementation plan is part of a continuing effort to install card access, CCTV, DVR's at all important company facilities. The installation of a comprehensive card access system includes: 1) installation of card readers to capture all personnel and vehicles entering/leaving a facility, 2) installation of supporting CCTV to supplement the access/egress of personnel and vehicles, 3) installation of vehicle barriers where appropriate to manage the flow of vehicular traffic and 4) the installation of card access and CCTV to high asset storage areas within a facility.

Justification:

Our internal security assessments at many of our facilities have identified a need to install basic security access controls for vehicles, personnel and visitors.

The need to install basic access controls at each of our daily occupied facilities has increased over the years to a point where the initial expansion limits/responsibilities have greatly exceeded what was envisioned. Most of this expansion resulted from requirements such as access restrictions into newly constructed/renovated facilities and governmental regulation mandates such as restricted access to critical cyber assets and sensitive document protection. The need to safeguard the facilities assets and support employee safety requires the addition of Access Controls, CCTV and related equipment.

*** Alternatives:**

On a cost effective basis, access control provides the most effective deployment of security at the 13 identified locations requiring increased security. If we instead use contract guards (24x7), it would be a prohibitive cost.

- * Risk of No Action: As the company continues to address the protection of its assets, employee safety and security at each and every site, the risk of not addressing these security issues leaves the company's facilities without basic level security for its assets and employees and vulnerable to crime. As an example, the increased attempts of cable theft from our facilities, not only puts our assets at risk but the safety of our employees working at these locations. An effective access control system is a deterrent against crime.
- * Non Financial Benefit Explanation: Access control and equipment provides an important security measure to protect the critical infrastructure of the Company. Asset protection, employee safety and security are significantly enhanced when these measures are introduced.
- * Technical Evaluation and Analysis: The purpose of this security equipment will provide basic level security and safety at company locations which currently do not have such systems.
- * Project Relationships:

Current Status:

Planning

Funding (\$000):

Actual 2007	Actual 2008	Actual 2009	Actual 2010	Actual 2011	Approved 2012
\$0	\$0	\$0	\$0	\$0	\$0

Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2013-2017
\$0	\$778	\$821	\$403	\$279	\$2,281

Historical elements of expense (EOE's)

EOE	2007	2008	2009	2010	2011	2012
Labor	-	-	-	-		
M&S	-	-	-	-		
A/P						
Indirects						
Contingency						
Total	\$0	\$0	\$0	\$0	\$0	\$0

EOE	2013	2014	2015	2016	2017
Labor	-	-	-	-	-
M&S	-	-	-	-	-
A/P - equipment		\$690	\$728	\$358	\$248
Indirects		88	93	45	31
Contingency					
Total	\$0	\$778	\$821	\$403	\$279

Capital – Shared Services - Security

Project Name	Corporate Security - ROLLOUT PROGRAM FOR OBSOLETE CAMERAS - COMPANY WIDE
Work Plan Category	Strat - Public & Employee Safety
Project Manager	DAN CLEMENS
Project Status	Not Started
Estimated Service Date	On-going

Work Description:

As changes in security technology evolve, there is a need to keep abreast of this technology and to replace older/outdated equipment. Specifically, many of the CCTV cameras throughout our facilities have been in place for many years with some being installed and in use since the early 90s. This request is to establish a long range ongoing replacement program for our cameras. We request sufficient funding to replace 100 cameras per year (75 PTZ and 25 fixed).

Justification:

There is a need to physically replace the fixed, and PTZ cameras that are outdated, not supported by their manufacturer, parts no longer available and deemed 'beyond economical repair' by the Company. As cameras continue to fail, require more servicing, lose their capability of capturing quality video and experience total video loss, the Company must make sure that our security equipment is functional in order to protect its employee's safety and the security of assets from theft, vandalism and acts of sabotage. In addition, effective replacement of equipment minimizes down time if an older camera breaks down. The PSC office of Utility Security is aware of this submission and fully endorses this proactive project.

- * Alternatives: Not having a pro-active camera replacement program puts the Company's facilities at risk awaiting replacement/repair of the equipment. Alternative measures to monitor facility perimeters such as additional guard patrols would be costly and not as effective. As the company continues to enhance its security measures, it is of critical importance that we keep our security systems updated and functioning, while minimizing downtime.
- * Risk of No Action: Waiting for a camera to break, need repair, or exceed its useful life is a reactive way to address a security need. This causes the company to immediately address the issue rather than have a systematic approach for dealing with equipment failures. If cameras continue to fail, require more servicing, lose their capability of capturing quality video and experience total video loss, the Company is more vulnerable to not having continuous monitoring of its facilities and a corresponding reduced ability to secure our assets from theft, vandalism and acts of sabotage.
- * Non Financial Benefit Replacing cameras will ensure continuous video surveillance of the

Explanation:

company's critical facilities, utilizing current technology and over time should help to keep camera system maintenance costs constant. This critical investigative tool is used to aid in forensic information gathering.

* Technical Evaluation and Analysis:

It is imperative that the company maintain a proactive approach to security. The utility industry recognizes that the "pay as you go" approach is ineffective with potential spikes in cost. With this request, we are ensuring that all 1,000 cameras on the ConEd system are replaced systematically every 10 years.

* Project Relationships:

This camera replacement request is similar to the DVR replacement program also submitted.

Current Status:

Planning

Funding (\$000):

Actual 2007	Actual 2008	Actual 2009	Actual 2010	Actual 2011	Approved 2012
\$0	\$0	\$0	\$0	\$0	\$0

Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2013-2017
\$0	\$303	\$303	\$303	\$303	\$1,212

Historical elements of expense (EOE's)

EOE	2007	2008	2009	2010	2011	2012
Labor	-	-	-	-		
M&S	-	-	-	-		
A/P						
Indirects						
Contingency						
Total	\$0	\$0	\$0	\$0	\$0	\$0

EOE	2013	2014	2015	2016	2017
Labor	-	-	-	-	-
M&S	-	-	-	-	-
A/P - equipment		\$269	269	269	269
Indirects		34	34	34	34
Contingency					
Total	\$0	\$303	\$303	\$303	\$303

Capital – Shared Services - Security

Project Name	CORPORATE SECURITY DVR REPLACEMENT - COMPANY WIDE
Work Plan Category	Strat - Public & Employee Safety
Project Manager	DAN CLEMENS
Project Status	Not Started
Estimated Service Date	Aug 31 2014

Work Description:

IR has informed Corporate Security that the company's DVR's work on an operating system that will not be supported after March 2014. As Con Ed keeps abreast with the ever-changing technical/software upgrades to our computer network, we must also adapt by replacing our security equipment that will become obsolete and utilize new technology to support our security systems. This capital request is to replace all 100+ DVR's on our system to ensure the video feeds are recorded from all our cameras and transmitted back to our SOC.

Justification:

The Corporate Security department has been informed of a very recent change in the Corporate Information Resource (IR) policy indicating all servers, computers, security DVR's and any technology device that is to be connected to the network mainframe server must have the Windows 7™ operating system installed and in use. In order for the Corporate Security department to remain up-to-date with the most current technology in security equipment as well as compliant with corporate IR policies there is a need to replace all of the company's technical security servers and Digital Video Recorders (D.V.R'S) by and no later than April 2014.

- * **Alternatives:** Corporate Security did research and benchmarked with other utilities on alternative options for recording video. The discussions centered on utilizing "cloud" technology. Although storing such video transmission would be cheaper using this technology, it was unanimously agreed to that this alternative is not secure and raises numerous concerns about having a third party control such valuable video data. We also inquired how other utilities address technological enhancements and all stated they roll out the new technology similar to this request.
- * **Risk of No Action:** If the DVR's are taken off the corporate system because they are obsolete, there will be no recorded video for the approximate 1,000 cameras currently on our security systems. Therefore, we would be unable to do any forensic video analysis for any attempted or actual breaches or suspicious activity at our critical infrastructure locations. Not updating the DVR's would have a significant negative impact on our Security Operations Center's ability to monitor and track security incidents at our critical designated facilities. The PSC office of Utility Security has been favorable on our role in protecting critical facilities and if we were not to upgrade these DVR's, we anticipate a negative reaction from them.
- * **Non Financial Benefit Explanation:** DVR replacement is critical in maintaining live and cached film footage of events transpiring at company critical facilities in a timely fashion that is

supported by both IR and the manufacturer. Improving the quality of recording service over time should help to keep system maintenance costs constant. The DVR replacement is an investigative tool used to aid in forensic information gathering. The DVR system will reduce risk and increase the opportunities to save costs.

* Technical Evaluation and Analysis:

It has been determined that the existing DVR's at company locations are no longer supported by the manufacturers due to obsolescence and at a predetermined date during 2014 will no longer be supported by the company's IR organization on the Company network. The DVR's must be replaced to keep the link between the local site and the Security Operations Center.

* Project Relationships:

Current Status:

Planning

Funding (\$000):

Actual 2007	Actual 2008	Actual 2009	Actual 2010	Actual 2011	Approved 2012
\$0	\$0	\$0	\$0	\$0	\$0

Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2013-2017
\$0	\$1,080	\$0	\$0	\$0	\$1,080

Historical elements of expense (EOE's)

EOE	2007	2008	2009	2010	2011	2012
Labor	-	-	-	-		
M&S	-	-	-	-		
A/P						
Indirects						
Contingency						
Total	\$0	\$0	\$0	\$0	\$0	\$0

EOE	2013	2014	2015	2016	2017
Labor	-	-	-	-	-
M&S	-	-	-	-	-
A/P - equipment		\$958			
Indirects		122			
Contingency					
Total	\$0	\$1,080	\$0	\$0	\$0