



Engineering, Operations and Technology
Committee

IT Datacenter Backup Infrastructure Upgrade

Item 7-2

August 14, 2023

Current Action

Authorize an agreement with Nth Generation Computing, Inc. in an amount not to exceed \$367,447 for the Datacenter Backup Infrastructure Upgrade project

Background

The current backup infrastructure at MWD relies on outdated and obsolete magnetic tape technology. IT is gradually moving applications from its on-premise datacenter to Microsoft, Oracle and other cloud infrastructure providers. The existing backup solution is unable to support the backup function for cloud technologies.

MWD has 300+ applications with approximately 400 terabytes of data. Applications data is backed up daily, weekly and monthly. These backups are used to recover applications/files when necessary.

IT Customer support gets a couple of requests every month to recover and restore accidentally deleted or corrupted files.

Reasons for Replacement

- Eliminate risk due to dependence on an outdated magnetic tape medium
- Reduce data security risk by adapting new data protection methods
- Reduce backup duration, restoration time, cyber security breach risks and human effort
- Enable the handling of both the current data volume and future growth of Metropolitan data
- The new solution will cater to the backup of cloud hosted applications

Solicitation Process

- RFP 408231 was issued on August 4, 2022
- Qualifications-based selection
- Seven proposals received, one disqualified
- Responses were evaluated by MWD evaluation committee. Business Outreach program (SBE/DVBE & RBE) was included in the evaluation score
- Shortlisted two highest scoring respondents
- Final selection completed on June 20, 2023

Vendor Selection

Nth Generation Computing, Inc. is selected due to its offering of a robust and mature solution (already implemented and used by large number of public and private organizations) and its configuration and implementation expertise in data center backup solutions.

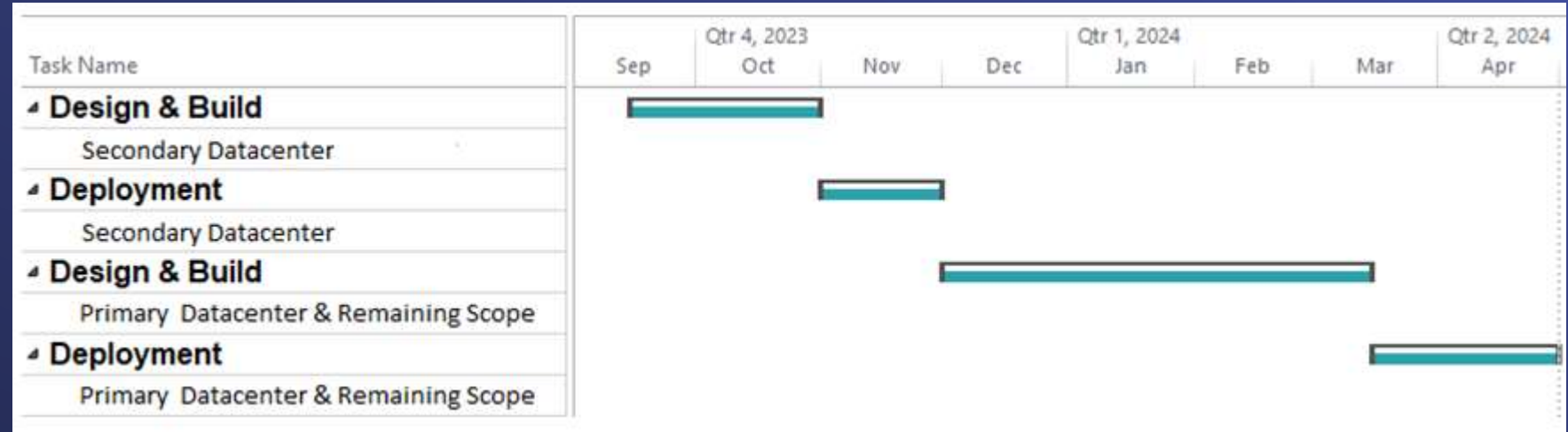
Agreement Scope

To implement the backup/restore system with infrastructure capabilities to support on-premises and cloud-based applications. The implementation includes Primary & Secondary Data Center, Union Station Headquarters Facility.

Project Cost

Project Cost Breakdown	
Vendor (Nth Generation Computing, Inc.)	\$367,447
MWD Staff	\$334,920
Contingency	\$70,236
Total Project Budget	\$772,604

Project Timeline



Board Options

- Option #1
 - Authorize an agreement with Nth Generation Computing, Inc. in an amount not to exceed \$367,447 for the Datacenter Backup Infrastructure Upgrade project
- Option #2
 - Do not proceed with this project at this t

Staff Recommendation

- Option #1

