

SOFTWARE LICENSE RENEWAL WITH SCHNEIDER ELECTRIC SMART GRID SOLUTIONS, LLC

Innovation and Technology Department

Board of Public Utilities

October 28, 2024

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BACKGROUND

1. June 20, 2006 – the City executed an agreement with Telvent USA, LLC for \$27,630
 - a. Gap analysis for the design of a computerized Geographic Information System (GIS)
 - b. Software License Agreement (SLA) Contract no. 2006-224
2. November 18, 2011 – First Addendum to the SLA
 - a. Added a three-year Enterprise License Agreement (ELA) for ArcFM
 - b. Annual cost of \$115,000, for a total of \$345,000
 - c. Includes the software license, maintenance and technical support
3. Five amendments and one addendum have been made to the agreement since 2011
 - a. The annual cost for the software remained at \$115,000 per year
 - b. Total cost since 2006: \$1,292,168



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DISCUSSION

1. Addendum 3 extends the existing license for an additional three years
2. Provides the annual pricing in FY 2024-25 of \$115,000/year
3. For the two subsequent years, the pricing increases by 5% per year (5% is the typical annual increase for software licensing)

| | Year 1 Nov 1, 2024 – Oct 31, 2025 | Optional Year 2 Nov 1, 2025 – Oct 31, 2026 | Optional Year 3 Nov 1, 2026 – Oct 31, 2027 |
|--------------------------|---|--|--|
| Total Annual Cost | \$115,000 | \$120,750 | \$126,788 |



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DISCUSSION

The enterprise licensing of ArcFM enables RPU to:

1. Deploy GIS desktop software for editing and viewing utility data within an Esri ArcGIS software environment
2. It is an extension to ArcGIS desktop for performing utility-specific workflows including utility modeling
3. ArcFM provides a web-component for display of the utility data called ArcFM Web
4. Is critical for the smooth migration from legacy systems to modern enterprise applications



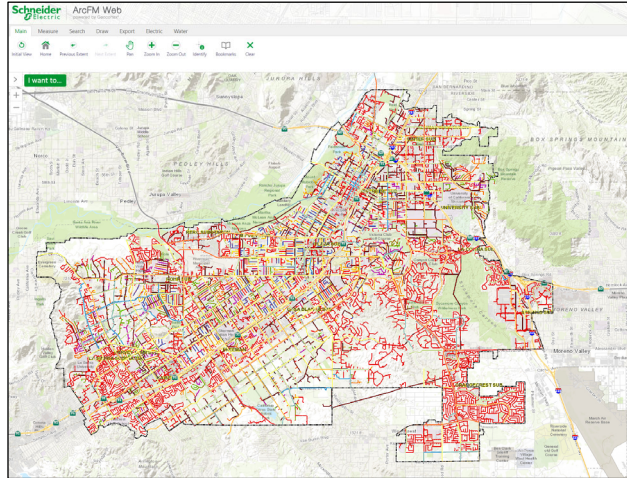
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WHAT IS ARCFM?

1. ArcFM is a powerful collection of tools for managing, modeling, and editing utility landbase data in an enterprise system.
2. The City uses it to trace electric circuits and to maintain associated assets.
3. Electric Tracing is used to check how the current is flowing through a network of connected feature assets such as switches and transformers.



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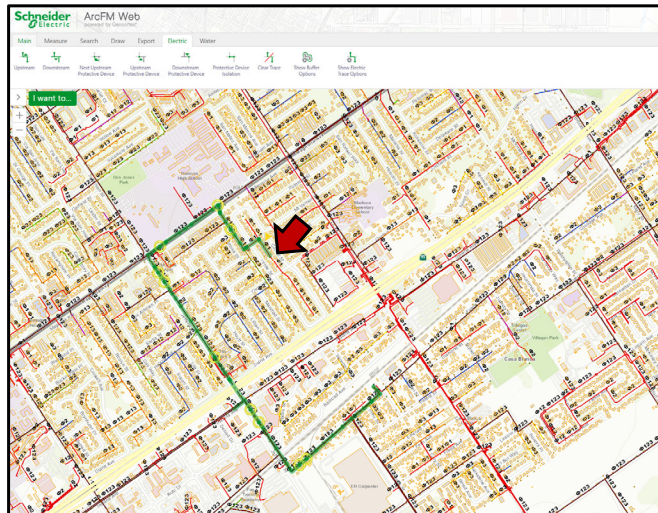
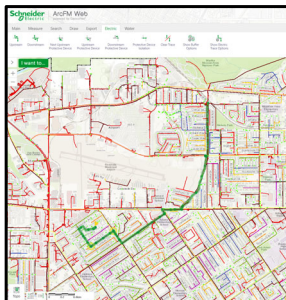


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ARCFM – UPSTREAM TRACE

Trace circuit connectivity from any point on the electric network up towards the substation.



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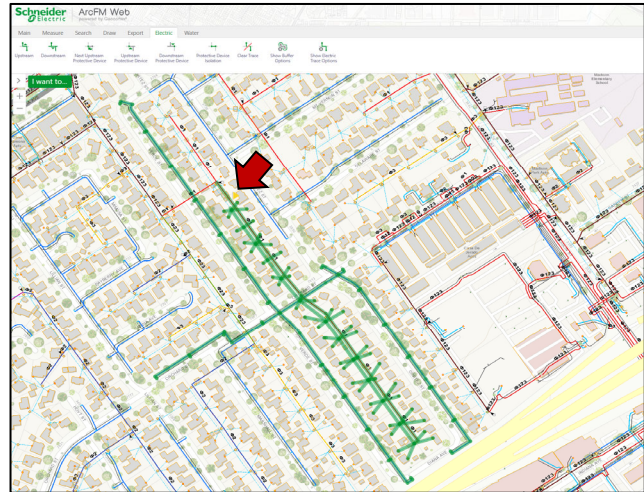
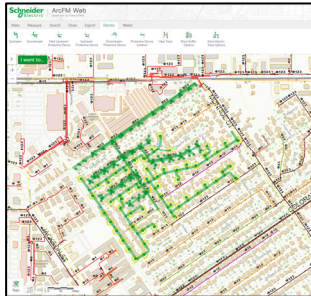


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ARCFM – DOWNSTREAM TRACE

Trace circuit connectivity from any point on the electric network down towards the end points.



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ARCFM – CIRCUIT ASSETS

Trace circuits and identify all the feature assets along the circuit

The screenshot shows a detailed view of a circuit asset in the Schneider ArcFM Web interface. The asset information panel includes the following details:

- Asset Name:** Secondary Overhead
- HYPERLINK:** [Redacted]
- LastUpdated:** Oct 30, 2020 10:28 AM
- CreatedBy:** [Redacted]
- CreateDate:** [Redacted]
- FEDERID:** 1355
- FEDERID2:** 12
- SYMBOL:** [Redacted]
- COMMENTS:** [Redacted]
- ELECTRICALWEIGHT:** [Redacted]
- ENABLED:** [Redacted]
- OPERATIONALSTATUS:** 10000000
- PHASEDESIGNATIONUNKNOWN:** No
- BusAssignment:** 111

Below the asset information, a table displays the trace results for the circuit:

| OBJECT ID | Subtype | Asset Type | Facility ID | Primary OH Conductor | Primary OH Conductor | Bus Bar | Construction Status | Installation Date | Ground Resistance |
|-----------|--------------------------|------------|-------------|----------------------|----------------------|---------|---------------------|----------------------|-------------------|
| 1110 | Single Phase Underground | [Redacted] | 10018A | | | | Existing | Sep 28, 1995 5:00 PM | |
| 1111 | Single Phase Overhead | [Redacted] | 00118A | | | | Existing | Dec 28, 1995 4:00 PM | |
| 1112 | Three Phase Overhead | [Redacted] | 00118A | | | | Existing | Dec 28, 1995 4:00 PM | |
| 1113 | Single Phase Overhead | [Redacted] | 100080A | | | | Existing | Sep 30, 1995 5:00 PM | |
| 1114 | Single Phase Underground | [Redacted] | 00118A | | | | Existing | Sep 28, 1995 5:00 PM | |
| 1115 | Single Phase Overhead | [Redacted] | 00118A | | | | Existing | Dec 28, 1995 4:00 PM | |
| 1116 | Single Phase Underground | [Redacted] | 100208 | | | | Existing | Dec 31, 2006 4:00 PM | |

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ARCFM - BENEFITS

1. Used by dispatchers and field crews to identify circuits to isolate during maintenance
2. Better equip field crews to see the impacted area on map before they schedule to replace switches and/or transformers
3. Measure circuit performance and identify distribution load on circuit switches



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STRATEGIC PLAN ALIGNMENT



Strategic Priority 4 – Environmental Stewardship



Strategic Priority 5 – High Performing Government



Strategic Priority 6 – Infrastructure, Mobility and Connectivity

Cross-Cutting Threads



Community Trust



Equity



Fiscal Responsibility



Innovation



Sustainability & Resiliency



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RECOMMENDATIONS

That the Board:

1. Authorize the expenditure for Addendum 3 to the Software License Agreement Contract No. 2006-224 with Schneider Electric Smart Grid Solutions, LLC, for three-years for a total amount of \$362,538; and
2. Authorize the City Manager, or designee, to execute all necessary documents including, but not limited to, quotes, agreements, and addendums with the ability to make minor non-substantive changes.



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