EVERSOURCE

# Supplement Authorization Form

| Project Title: DER Verogy Upper Rd Stafford Springs | Project Number: CD02239 |
|---|---|
| **Date Prepared:** 05/27/2026 | **Company:** Eversource CT |
| **Organization: Distributed Energy Resource Planning** | **Project Category:** Generation/Interconnection |
| **Initiating Organization:** Distributed Energy Resources | **Project Type:** Specific |
| **Project DDE:** [redacted] | **Capital Investment part of 5-year plan?** Yes |
| **Project Manager:** [redacted] | **Emergency Related Request?** No |
| **Project Sponsor:** [redacted] | **Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant) |
| **Current Authorized Amount: $415K** | **Approved In-Service Date:** 12/31/2025 |
| **Supplement Request: $124K** | **Estimated In-Service Date: 12/31/2026** |
| **Total Capital Request: $539K** | **Authorization Type:** Supplement Request |
| | **Reason:** Cost Overage |

## 1. Project Background

A 4.0 MW photovoltaic (PV) array to be installed at 92 Upper Road, Stafford Springs, CT. [redacted]

[redacted]

- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Stafford Springs

## 2. Supplement Justification Overview

There was no scope change to this project. The additional spend was due to additional disconnects and outside service for rock drilling.

## 3. Supplement Justification Detail

There was no scope change to this project. The additional spend was due to additional disconnects and outside service for rock drilling.

## 4. Supplement Cost Summary (Project Total)

| Capital Costs | To Date Spend | Prior Authorized | Supplement Request | **Total** (Add Prior and Supplement Request) |
|---|---|---|---|---|
| Internal Labor & Equipment | 48.3 | 51.0 | 8.7 | 59.7 |
| Outside Services | 20.3 | 0.0 | 18.1 | 18.1 |
| Materials | 156.4 | 126.2 | 26.0 | 152.2 |
| Removals | 6.2 | 5.7 | 1.7 | 7.4 |
| Risk and Contingency | 0.0 | 28.9 | 8.7 | 37.6 |
| Other | 0.2 | 0.0 | 0.0 | 0.0 |
| **SUBTOTAL Direct Cost** | **231.5** | **211.8** | **63.2** | **275.0** |
| Indirects / Overheads | 271.1 | 202.9 | 61.2 | 264.1 |
| AFUDC | 4.7 | 0.0 | 0.0 | 0.0 |
| **SUBTOTAL Indirect Cost** | **275.7** | **202.9** | **61.2** | **264.1** |
| **TOTAL Capital Request** | **507.2** | **414.7** | **124.4** | **539.1** |
| Less Total Customer Contribution | -507.2 | -414.7 | -124.4 | -539.1 |
| **TOTAL Project Cost** | **0.0** | **0.0** | **0.0** | **0.0** |

## New Total Request by Year

| Capital Costs | 2025 | 2026 | Projected Spend |
|---|---|---|---|
| Internal Labor & Equipment | 1.8 | 46.5 | 59.7 |
| Outside Services | 1.6 | 18.7 | 18.1 |
| Materials | 6.9 | 149.5 | 152.2 |
| Removals | 0.3 | 6.0 | 7.4 |
| Risk and Contingency | 0.0 | 0.0 | 37.6 |
| Other | 0.0 | 0.2 | 0.0 |
| **SUBTOTAL Direct Cost** | **10.6** | **220.8** | **275.0** |
| Indirects / Overheads | 13.6 | 257.4 | 264.1 |
| AFUDC | 0.3 | 4.3 | 0.0 |
| **SUBTOTAL Indirect Cost** | **14.0** | **261.8** | **264.1** |
| **TOTAL Capital Request** | **24.6** | **482.6** | **539.1** |
| Less Total Customer Contribution | -24.6 | -482.6 | -539.1 |
| **TOTAL Project Cost** | **0.0** | **0.0** | **0.0** |

## 5. Lessons Learned

FULL FUNDING PAF

| | |
|---|---|
| **Project Title:** Verogy, Upper Road, Stafford Springs | **Project Number:** CD02239 |
| **Date Prepared:** 09/25/2025 | **Company:** Eversource CT |
| **Organization:** Distributed Energy Resource Planning | **Project Category:** Distributed Generation |
| **Project Initiator:** [redacted] | **Project Type:** Specific |
| **Initiating Organization:** Distributed Energy Resources | **Capital Investment part of original Op Plan:** Yes |
| **Project Manager:** [redacted] | **Emergency Related Request?** No |
| **Project Sponsor:** [redacted] | **Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant) |
| **Required in service date:** 12/31/2025 | **NWS Excludable:** ☒ Yes ☐ No |
| **Total Capital Request:** $414.7K (100% Reimbursable) | **Authorization Type:** Full Funding |

# 1. Executive Summary

A 4.0 MW photovoltaic (PV) array to be installed at 92 Upper Road, Stafford Springs, CT. The project will interconnect [redacted]

[redacted]

- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Stafford Springs

The partial funding estimate for this project was $482.2K capital and was approved at the 12/07/2023 CTPAC. The full funding request is $414.7K capital. The difference in cost equates to $67.5K, a decrease of 14% of the cost of the project. There was no change in scope change to the project.

The cost difference between the partial and full funding estimates are due to Eversource crews scheduled to do the work instead of Contractor crews.

## 2. Project Cost Summary

Note: Dollar values are in thousands.

| Capital Costs | 2025 | Total |
|---|---|---|
| Internal Labor and Construction Equipment | 51.0 | 51.0 |
| Outside Services | 0.0 | 0.0 |
| Materials | 126.2 | 126.2 |
| Removals | 5.7 | 5.7 |
| Risk and Contingency | 28.9 | 28.9 |
| Other | 0.0 | 0.0 |
| **Subtotal** | **211.8** | **211.8** |

| Indirect Capital Costs | 2025 | Total |
|---|---|---|
| Indirects/Overheads (including benefits) | 202.9 | 202.9 |
| Capitalized interest or AFUDC, if any | 0.0 | 0.0 |
| **Subtotal** | **202.9** | **202.9** |
| | | |
| **Total Capital Costs (Gross)** | **414.7** | **414.7** |
| | | |
| Less Total Customer Contribution | **-414.7** | **-414.7** |
| | | |
| **Project Costs (Net of Reimbursement)** | **0.0** | **0.0** |

# 3. Technical Justification

## Background, Project Need/Justification, and Project Scope

### a. Background

Verogy is proposing a 4.0 MW photovoltaic (PV) project, located at 92 Upper Road, Stafford Springs, CT. The project will interconnect [redacted]

### b. Project Need

The goal of this project is to provide service to the DER applicant to allow their generator to interconnect to the Eversource EPS. This project proposes the installation of a site-dedicated recloser and primary meter. Additional upgrades to the Eversource electric power system include replacing upstream trip savers with radial reclosers and extend three-phase conductors.

### c. Project Scope

[redacted]

# 4. Alternatives Considered

**NWS Exclusion Criteria (select all that apply)**

| | |
|---|---|
| ☐ Project cost < $250k | ☐ New Service |
| ☐ CDOT Relocation | ☒ Generator interconnection project |
| ☐ Maintenance, Asset condition or safety related* | |

**Project Option Comparison**

| Design Criteria | Option |
|---|---|
| | 1 – Extend Circuit |
| Required to meet project need | |
| Normal loads < 80% of UG rating | X |
| Normal loads < 90% of OH rating | X |
| Contingent loads < 100% of rating | |
| Additional Benefits (not required to meet scope of project) | |
| All zones < 500 customers | X |
| Additional ties created | 2 |
| Eliminates PILC | |
| Reconfigure double circuit pole lines where both the normal and alternate supply the same group of customers | X |
| No automatic circuit ties with circuits emanating from the same bus | X |
| Eliminate triple circuit pole line | N/A |

**Option Summary**

There were no other options considered for this this design.

# 5. Project Schedule

| Milestone/Phase Name | Estimated Date |
|---|---|
| Partial Approval | December 2023 |
| 100% Detailed Engineering Completion | August 2025 |
| Fully Funded | September 2025 |
| Construction Start | October 2025 |
| In Service Date | December 2025 |

## 6. Regulatory Decisions

N/A

## 7. Codes and Standards

N/A

## 8. Risk and Contingencies

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2025 | Low | Included contingency costs in the funding request. The project will also require a facility study to perform the detailed engineering. |
| Customer Permission / Siting Council / Municipal approvals | 2025 | Medium | New service requires limited easement with the existing customer. |
| Internal construction resources not available to perform the work. | 2025 | Low | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Internal engineering resources not available to perform the work. | 2025 | Medium | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Materials Shortage or long lead times | 2025 | Low | Pre-order long lead time material; minimize the use of non-standard and non-stocked material. |

| | | | |
|---|---|---|---|
| Storm delays | 2025 | Low | If storm activity delays work, we may be forced to use external resources. |
| System abnormal configuration | 2025 | Low | Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods. |
| Technological risks involving integration of new technology | 2025 | Low | Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path. |
| Wetlands / Environmentally sensitive area | 2025 | Low | The new service poles/equipment will require a limited easement to the customer's site and is not anticipated to go in wetlands. |

## 9. References

| References |
|---|
| 1. N/A |

## 10. Attachments (One Line Diagrams, Images, etc.)

| Attachment | Included in Submittal? |
|---|---|
| A. Partial Funding PAF | *YES* |

EVERSOURCE

Supplement Authorization Form

Attachment A: Partial Funding PAF

| | |
|---|---|
| **Project Title:** Verogy, Upper Road, Stafford Springs | **Project Number:** CD02239 |
| **Date Prepared:** 11/22/2023 | **Company:** Eversource CT |
| **Organization:** Distributed Energy Resource Planning | **Project Category:** Distributed Generation |
| **Project Initiator:** Kevin J. Martinez-Borjas | **Project Type:** Specific |
| **Initiating Organization:** Distributed Energy Resources | **Capital Investment part of original Op Plan:** No |
| **Project Manager:** Joseph Debs | **Emergency Related Request?** No |
| **Project Sponsor:** Jeffrey Richard | **Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant) |
| **Required in service date:** 6/30/2025 | |
| **Total Capital Request:** $482,200 (100% Reimbursable) | **Authorization Type:** Partial Funding |

# 1. Executive Summary

The purpose of this request is to approve the 100% reimbursable preliminary engineering estimate of $482,200. This preliminary engineering estimate includes a 24% contingency for a projected June 30, 2025, in service date. Note, the total gross capital does not include the CIAC tax or witness test cost. Those costs are illustrated in the Project Cost Summary section. The project will be in the Central Division, in the Town of Mansfield in the Tolland AWC.

Verogy is proposing a 4.0 MW photovoltaic (PV) project, located at 92 Upper Road, Stafford Springs CT. The project will interconnect [redacted]

[redacted]

[redacted]

# 2. Project Cost Summary

Note: Dollar values are in thousands.

| Capital Costs | Year 2024 | Year 2025 | Year 2026+ | Total |
|---|---|---|---|---|
| **Direct Capital Costs** | 11.5 | 17.2 | 0.0 | 28.6 |
| Internal Labor and Construction Equipment | 62.2 | 93.3 | 0.0 | 155.4 |
| Outside Services | 25.3 | 38.0 | 0.0 | 63.4 |
| Materials | 25.9 | 38.8 | 0.0 | 64.6 |
| Removals | 11.5 | 17.2 | 0.0 | 28.6 |
| Risk and Contingency | 0.0 | 0.0 | 0.0 | 0.0 |
| Other | 1.3 | 1.9 | 0.0 | 3.1 |
| Subtotal – Direct Costs | **126.1** | **189.1** | **0.0** | **315.2** |
| **Indirect Capital Costs** | | | | |
| Indirect/Overheads (including benefits) | 66.8 | 100.2 | 0.0 | 167.0 |
| Capitalized interest or AFUDC, if any | 0.0 | 0.0 | 0.0 | 0.0 |
| Subtotal – Indirect Costs | **66.8** | **100.2** | **0.0** | **167.0** |
| **Total Gross Capital Costs** | **192.9** | **289.3** | **0.0** | **482.2** |
| Customer Contribution | **-192.9** | **-289.3** | **0.0** | **-482.2** |
| **Total Net Capital Project Costs** | **0.0** | **0.0** | **0.0** | **0.0** |

The below table illustrates the total cost that will be shared with the customer in the interconnection agreement. It includes a CIAC contribution as well as witness test fee.

| | |
|---|---|
| Distribution cost with O&M | $537,947 |
| CIAC Tax (15%) | $80,693 |
| Total Distribution cost | $618,640 |
| Witness Test | $2,000 |
| **TOTAL CIAC** **paid by customer** | **$620,640** |

# 3. Technical Justification

## Background, Project Need/Justification, and Project Scope

## a. Background

Verogy is proposing a 4.0 MW photovoltaic (PV) project, located at 92 Upper Road, Stafford Springs CT. The project will interconnect to the Mansfield 12J33 feeder at 23kV Project Location:

- Division: Central
- District: Tolland
- City: Stafford Springs

## b. Project Need

The goal of this project is to provide service to the DER applicant to allow their generator to interconnect to the Eversource EPS. This project proposes the installation of a site-dedicated recloser and primary meter. Additional upgrades to the Eversource electric power system include relocating voltage regulators and replacing upstream fuses with disconnect switches and radial reclosers.

## c. Project Scope

[redacted]

## 4. Alternatives Considered

The Distribution Design Engineer confirmed [redacted]

## 5. Project Schedule

| Milestone/Phase Name | Estimated Date |
|---|---|
| Partial Approval | 11/30/2023 |
| Issuance of Interconnection Agreement | 3/01/2024 |
| 100% Detailed Engineering Completion | 5/01/2024 |
| Fully Funded | 6/30/2024 |
| Construction Start | 3/01/2025 |
| In Service Date | 6/30/2025 |

## 6. Regulatory Decisions

N/A

## 7. Codes and Standards

See section 9.

# 8. Risk and Contingencies

Contingencies:

A 24% contingency was added, consistent with an in-service date one year out.

Risk Mitigation:

No additional dollars were included for risk. Minimal risk is anticipated based on the scope of work.

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2024 | Low | Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues. |
| Customer Permission / Siting Council / Municipal approvals | 2024/2025 | Medium | Design to minimize customer impact. Project Preplanning and customer/community outreach. |
| Internal construction resources not available to perform the work. | 2024/2025 | Medium | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Internal engineering resources not available to perform the work. | 2024 | Low | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Materials Shortage or long lead times | 2024 | Low | Pre-order long lead time material; minimize the use of non-standard and non-stocked material. |
| Storm delays | 2024 | Low | If storm activity delays work, we may be forced to use external resources. |

| | | | |
|---|---|---|---|
| System abnormal configuration | 2024 | Low | Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods. |
| Technological risks involving integration of new technology | 2024 | Low | Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path. |
| Wetlands / Environmentally sensitive area | 2024 | Low | Use of mats and specialty equipment, only work during certain times of the year. |

## 9. References

| References |
|---|
| 1. DSEM- Distributed Generation- Remote monitoring and control- 7.0 |
| 2. DSEM- Distributed Generation- General Standards- Large scale DER 1.4.1 |
| 3. DSEM- New Service- NB-3-7a |
| 4. DER Planning Guide |
| 5. |

## 10. Attachments (One Line Diagrams, Images, etc.)

| Attachment | Included in Submittal? |
|---|---|
| A. Geographic Map | *YES* |
| B. Cost Estimate | *YES* |
| C. System and Station One-Lines | *YES* |
| D. Customer Single Line Diagram | *YES* |



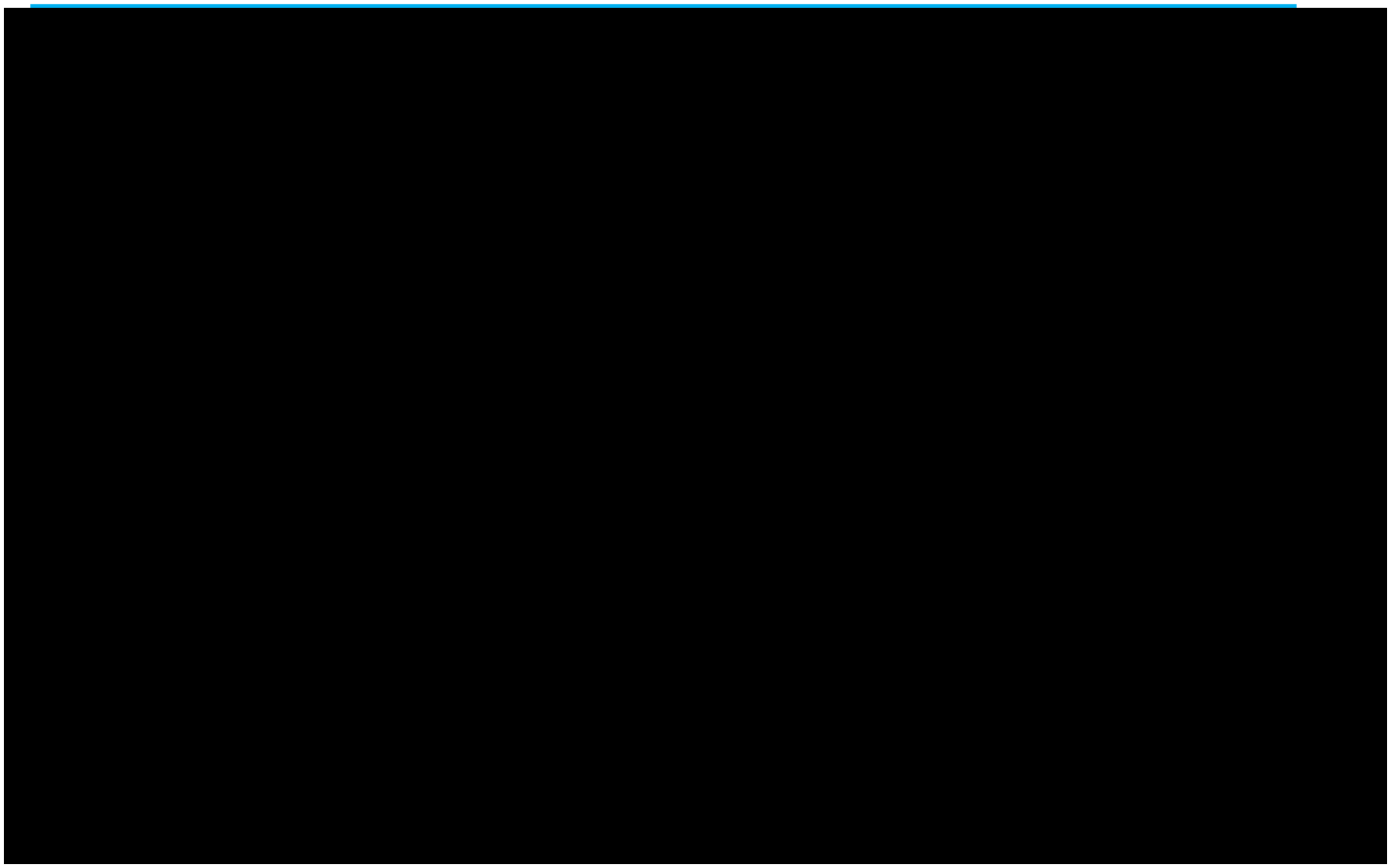
**Attachment B:**

| Estimating Sheet | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Code | Unit Type | Unit Description | Included | Unit of Measu | Unit Cost | Quantity | Total Cost | KEYWORD | Comments |
| ALL14 | ALL | OTHER | Item not in list | [redacted] | | | $30,000 | OTHER | Primary metering on customer property |
| ALL14 | ALL | OTHER | Item not in list | | | | $3,000 | OTHER | Removal of fuses, regulators, and tripsaver ($500 per equipment) |
| ALL17 | ALL | OH/DB/UG - SWITCHING NonNetwork - Average | Labor per switching order | | | | $4,562 | SWITCHING | SWITCHING |
| ALL19 | ALL | OH/DB/UG - Traffic Control - Flagger | $300 / day / flagger, Rural area, secondary roads, 2 needed for reconductoring, multiple crews | | | | $49,000 | TRAFFIC | TRAFFIC |
| OH11 | OH | OH - POLE - 1ph (Telephone custodian) | Shift any 1 ph pole Telephone installs pole | | | | $2,439 | POLE | Install 1 new pole on property for primary metering |
| OH31 | OH | OH - Neutral | Labor and Material to install neutral conductor | | | | $4,160 | OH WIRE | New neutral for line extension. |
| OH34 | OH | OH - Line Extension - 3ph (556 kcmil) | Includes conductor, poles, poletops, arresters, c/o's, guys, average trimming | | | | $78,000 | OH WIRE | New line extension on private property |
| OH38 | OH | OH - Recloser - 3ph | Includes Replacing Pole, 6 Stirrups, 6 arresters, 3 Vertical Disc Switches, Control, etc. | | | | $124,773 | SECTIONALIZE | Install 2 new Radial Reclosers. One on new pole on customer property. Another on pole 174 on East St. to replace 100K fuse. |
| OH43 | OH | OH - Vertical Disconnect Switches, 600/900 amp, 3-1ph | Includes: Pole replacement, Disconnects, 6 stirrups, arresters | | | | $13,368 | SECTIONALIZE | Install disconnnects on pole 766 on Hydeville Rd. facing Upper Rd. |
| OH47 | OH | OH - Regulator - 1ph - on POLE | Replace Pole, install 1 regulator complete, except regulator cost | | | | $64,272 | EQUIPMENT | Install 3 new regulators on East St. poles 178, 179, and 181 |
| Total | | | | | | | $373,574 | | |
| | | | Contingency/Contractor Co | | | | $89,658 | | |
| | | | | | | | $74,715 | | |
| | | | | | | | $537,947 | | |

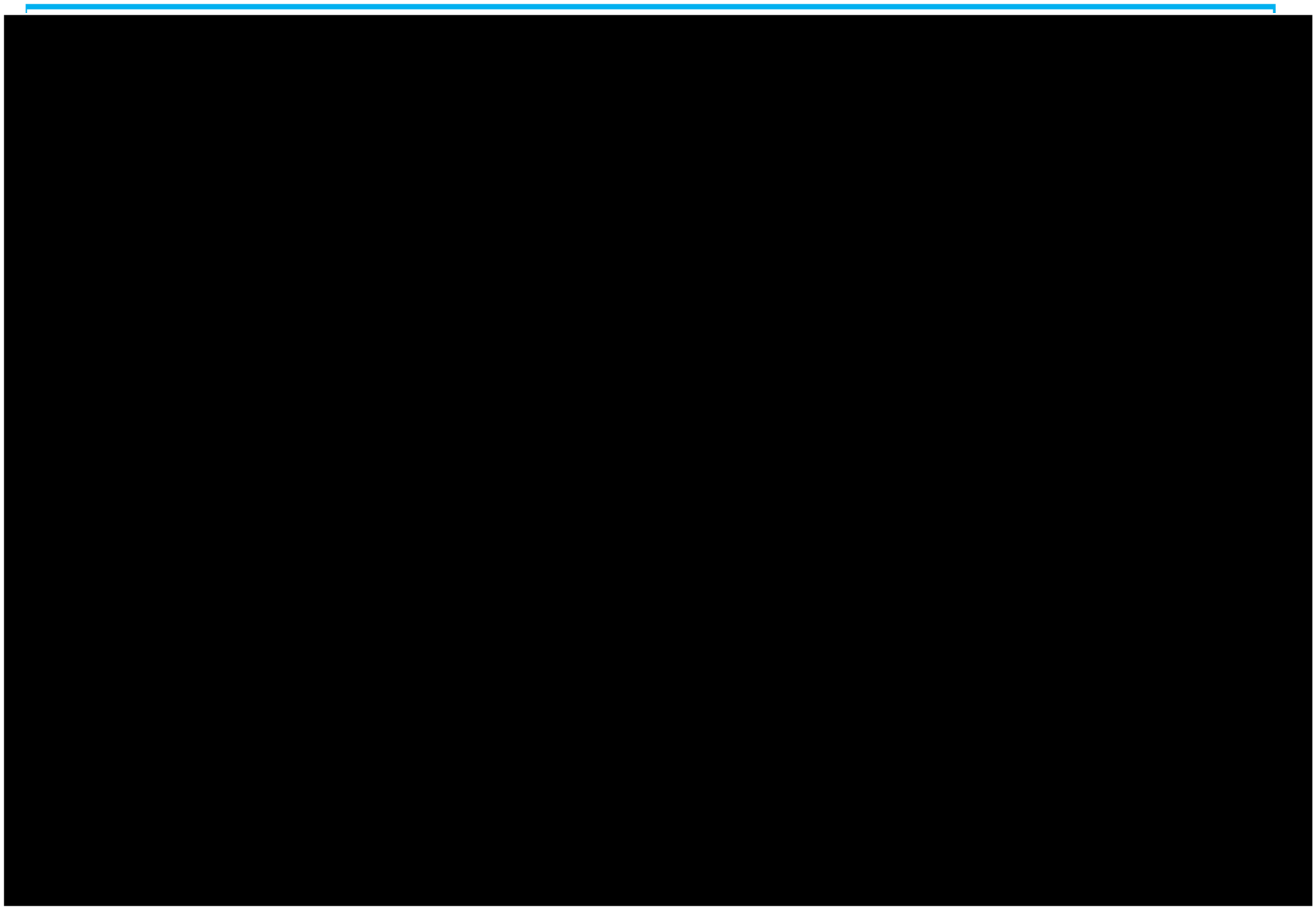
**Attachment C:**



**Attachment D (1 of 3):**



**Attachment D (2 of 3):**



**Attachment D (3 of 3):**

