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Operations Project Authorization Form

Approved at December 09, 2020 EPAC
Link to Meeting Minutes

Date Prepared: 12/01/2020	**Project Title: [redacted] LTC Controllers Upgrade**
Company: Eversource CT	**Project Number: CS00372**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Transformers**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Replace obsolete LTC controls**
Estimated in service date: 12/31/2021	**Capital Investment part of original Oper. Plan: Yes**
Eng./Constr. Resources Budgeted? Yes	**O&M Expenses part of original Oper. Plan: N/A**
Authorization Type: Full Funding	**Facility Type (check all that apply):**
Total Request: $1.054M	**☐ PTF ☐ non-PTF ☒ Distribution**

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This full funding request of $1.054M is to replace two (2) obsolete Load Tap Changer (LTC) controllers and their associated parallel schemes at the [redacted] The [redacted] substation, [redacted]

Eversource operations and engineering identified [redacted] constructability review was completed on June 10, 2020.

This project will replace the [redacted]

This project had initial funding of $55K approved in PowerPlan on July 9, 2020. The spend through November 2020 is minimal.

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Project Costs Summary

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2020 to Go	2021	2022	2023	2024	2025	Total
1. ROW / Easements / Land Acquisition	$	$	-	-	$	$	$	$	-
2. Environmental Approvals / Permits	$	$	-	-	$	$	$	$	-
3. Outreach	$	$	-	-	$	$	$	$	-
4. Siting Approvals / Permits	$	$	-	-	$	$	$	$	-
5. Engineering / Design	$	$	$8	$17	$	$	$	$	$25
6. Materials (Eversource purchased)	$	$	-	$28	$	$	$	$	$28
7. Construction (incl matl's by contractors)	$	$	-	$206	$	$	$	$	$206
8. Testing / Commissioning	$	$	-	$226	$	$	$	$	$226
9. Project Mgmt Team	$	$	$2	$11	$	$	$	$	$12
10. Removals	$	$	-	-	$	$	$	$	-
11. Other	$	$	-	-	$	$	$	$	-
12. Risks	$	$	-	$53	$	$	$	$	$53
SUBTOTAL DIRECTS W/ RISKS	**$55**	**$**	**$10**	**$540**	**$**	**$**	**$**	**$**	**$550**
13. Indirects/Overhead	$	$	$27	$352	$	$	$	$	$378
14. AFUDC	$	$	$1	$26	$	$	$	$	$26
PROJECT TOTAL – BASELINE BUDGET	**$55**	**$**	**$37**	**$918**	**$**	**$**	**$**	**$**	**$954**
15. Contingency	$	$	-	$100	$	$	$	$	$100
TOTAL CAPITAL REQUEST	**$55**	**$**	**$37**	**$1,018**	**$**	**$**	**$**	**$**	**$1,054**
16. Reimbursables/Customer Contribution	$	$	-	-	$	$	$	$	-
PROJECT TOTAL (LESS REIMBURSABLES)	**$55**	**$**	**$37**	**$1,018**	**$**	**$**	**$**	**$**	**$1,054**
O&M	$	$	-	-	$	$	$	$	-
TOTAL REQUEST	**$55**	**$**	**$37**	**$1,018**	**$**	**$**	**$**	**$**	**$1,054**

Note:
Risks includes: Severe Weather, Delays, OT, Recall time ($53K)

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Breakout Costs

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2020 to Go	2021	2022	2023	2024	2025	Total
ST Labor	$	$	$8	$25	$	$	$	$	$32
OT Labor	$	$	-	-	$	$	$	$	-
Outside Services Labor	$	$	$2	$433	$	$	$	$	$435
Materials*	$	$	-	$28	$	$	$	$	$28
Removals	$	$	-	-	$	$	$	$	-
Other	$	$	-	$154	$	$	$	$	$155
Indirects	$	$	$27	$352	$	$	$	$	$378
AFUDC	$	$	$1	$26	$	$	$	$	$26
TOTAL CAPITAL REQUEST - W/O REIMBURSABLES	**$55**	**$**	**$37**	**$1,018**	**$**	**$**	**$**	**$**	**$1,054**

*All materials including Eversource purchased and outside service purchased. Note that outside service purchased material included in construction in project cost summary above.

Future Financial Impacts:

Provide below the estimated future costs that will result from the project: N/A
Note: Dollar values are in thousands

Future Costs	Year 20__	Year 20__	Year 20__	Year 20__+	Total Future Project Costs
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M, and/or Other costs noted above:

What functional area(s) will these future costs be funded in? N/A
A representative from the respective functional area is required to be included as a project approver.

Provide below the estimated future financial benefits that will result from the project:
Note: Dollar values are in thousands

Future Benefits	Year 20__	Year 20__	Year 20__	Year 20__+	Total Future Project Benefits
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M, and/or Other benefits noted above:

What functional area(s) will these benefits be reflected in? N/A
A representative from the respective functional area is required to be included as a project approver.

Asset Retirement Obligation (ARO) and/ or Environmental Cleanup Costs (Environmental Liabilities):

Is there an ARO associated with this project? If yes, please provide details: N/A

Are there other environmental cleanup costs associated with this project? If yes, please provide details: N/A

Technical Justification:

Project Need Statement

The [redacted] See Attachment B for the Nomenclature Diagram.

Project Objectives

[redacted]

Project Scope

[redacted]

Background / Justification

This project will replace the [redacted]

Business Process and / or Technical Improvements

This project will replace the LTC controllers with the standard microprocessor type Beckwith controls. Updating to modern electronic digital devices will improve stability and reliability that is not attainable with the older design.

Alternatives Considered with Cost Estimates

- **Repair failing equipment**
  - The LTC controls for both transformers are the original McGraw Edison analog-type controls from 1973 and cannot be repaired because parts are no longer available. Therefore, this is not a viable alternative.
- **Do Nothing**
  - This alternative would generate additional monitoring and field costs that can be avoided by replacing the existing LTC controllers proactively. This alternative does not address the issues identified in the need statement above.
- **Replace/upgrade existing LTC controllers (Preferred Alternative)**
  - This is the selected alternative to keep Eversource services at the standard reliability levels.

Project Schedule

Milestone/Phase Name	Estimated Date
EPAC/project approval for full funding	December 2020
Engineering	March 2021
Material Procurement	March 2021
Construction Start	March 2021
Testing	December 2021
In Service	December 31, 2021

See Attachment D for the P6 schedule.

Regulatory Approvals

N/A

Risks and Risk Mitigation Plans

Single-Contingency Load Loss (SCLL):

Taking one (1) transformer out of service at a time poses an SCLL risk. For an LTC controls replacement project, the transformers should be available to be returned to service each night without automatic control functionality. The construction team would be required to build a

temporary circuit to have manual control available at the end of the shift. This set up has a shorter recall time compared to a plan to use a mobile transformer at [redacted]

Battery load Impact:

There is no impact to DC load. The LTC controllers are powered by the 120V AC from the voltage sensing potential transformers (PTs). No mitigation is needed.

Severe weather and Switching Delays:

A risk allowance is included to mitigate this risk.

Contingency

There is an allowance of $100K in contingency for unknowns included in the budget.

References

- CT T AND D XFs Health Ranking 2019

Attachments (One-Line Diagrams, Images, etc.)

- Attachment A - Cost Estimate Backup Details
- Attachment B - 21403-91001_[redacted]_Nomenclature Diagram
- Attachment C - CS003721_Constructability Review
- Attachment D - CS003721_P6 Schedule

INSTRUCTIONS:
It is the responsibility of the initiator to contact the subject matter experts in the listed area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution. See the PAF Guide for additional instruction.

Project Checklist - Transmission & Substation Capital Project					
Project Name: [redacted] **LTC Controllers Upgrade**			**Project Number: CS00372**		
Facility Type: ☐ BPS ☐ BES ☐ PTF ☐ non-PTF ☐ CIP ☒ Distribution					
PLANNING					
Is a NX-9 required?			No		
Is an ISO-NE PAC presentation required?			No		
ISO-NE Presentation Date (if completed):			N/A		
Cost in ISO-NE Presentation ($M) (if completed):			N/A		
Is a PPA required?			No		
Is a TCA Application Required?			No		
TCA Submittal Date (if submitted):			N/A		
Cost in TCA Submittal ($M) (if submitted):			N/A		
Enter ISO-NE RSP / Asset Condition ID, if assigned:			N/A		
PLANNING/PROTECTION & CONTROLS					
Are RAS/SPS/UVLs affected?			No		
OPERATIONS					
Outage Required?	☒ Primary Equipment (Power Transfer)	☒ Secondary Equipment (P&C only)		☐ Outage Not Required	
Do SCLL Conditions Exist?			Yes		
Has an outage schedule been approved?			No		
Are Operations & Maintenance procedures/training required?			No		
STANDARDS					
Does the project include standard equipment and designs?			Yes		
SUBSTATION ENGINEERING					
Does this impact Revenue Metering			No		
Is preliminary short circuit/ breaker duty analysis required?			No		
Are there any changes to the baseline audible noise?			No		
Is there an impact to the existing ground grid?			No		
Is a Transient Over Voltage (TOV) analysis required?			No		

Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted] LTC Controllers Upgrade	**Project Number: CS00372**
P&C ENGINEERING	
OP-22 - Are PMUs and DDR required?	No
If BPS, is an NPCC Directory #4 presentation required?	No
Are ISO-NE OP-24 Appendix B updates necessary?	No
TRANSMISSION LINE ENGINEERING	
Are there any changes that affect the baseline EMF?	No
Are there any changes that affect the baseline EMI?	No
SITING	
Is a Siting filing required? *(If yes, list in regulatory approvals section)*	No
PERMITTING	
Is there any permitting required? *(If yes, list in regulatory approvals section)*	No
SITING & CONSTRUCTION SERVICES (OUTREACH)	
What is the level of outreach expected?	None
INITIATOR	
Has a field constructability review been completed?	Yes
INVESTMENT RECOVERY	
Does the project require development of an Investment Recovery plan?	No
COST ESTIMATING	
What team/firm prepared the cost estimate?	Estimate was prepared by Eversource Engineering
Name of the person who prepared the estimate:	[redacted]
Was the estimate reviewed by Eversource Estimating?	Yes - Full Review

Cost Estimate Backup Details

See Attachment A for cost estimate backup details.

ESTIMATE SUMMARY

Project Title: [redacted] S/S - LTC controllers upgrade

Project Mgr/Lead: [redacted]

Project Number: CS00372
WO & Task #: CS003721
Est. Revision # 1

Estimate By: [redacted]

Date of Estimate: 4/12/2021

ISD:31/12/2021

Estimate #

Template Revision # 01.4

ESTIMATE SUMMARY

Estimate Type: Planning

WBS	Description	TOTAL	% of Total	Priors	2020	2021	2022	2023	2024	2025
1	ROW / Easements / Land purchases									
2	Environmental Approvals / Permits									
3	Outreach									
4	Siting Approvals / Permits									
5	Engineering / Design	$24,700	2.3%		$8,100	$16,600				
6	Materials (Eversource purchased)	$27,700	2.6%			$27,700				
7	Construction (incl matl's by contractors)	$194,400	18.4%			$194,400				
8	Testing / Commissioning	$226,200	21.5%			$226,200				
9	PMT Project Mgmt Team	$12,300	1.2%		$1,500	$10,800				
10	Removals	$11,500	1.1%			$11,500				
11	Other									
12	Risks	$52,900	5.0%			$52,900				
	Project Directs Total w/Risks	**$549,700**	52.1%		**$9,600**	**$540,100**				
13	Indirects/Overhead	$378,600	35.9%		$26,700	$351,900				
14	AFUDC	$26,100	2.5%		$600	$25,500				
	Project Total - Baseline Budget	**$954,400**	90.5%		**$36,900**	**$917,500**				
15	Contingency	$100,000	9.5%							
	Project Total - Funding Approval Level	**$1,054,400**	100.0%		**$36,900**	**$917,500**				
16	Reimbursables/Customer Contribution									
	Project Total (less reimbursables)	**$1,054,400**			**$36,900**	**$917,500**				
	Amount of Escalation included above	$24,100				$24,100				
6	Total materials - Eversource	$27,700				$27,700				
	Total materials - Contractor									
	Total materials	$27,700				$27,700				
	NOTE: Risk / Contingency is 17% of Project Total Costs (incl escal/indirects/AFUDC but excl reimb.)									

Estimate Range -25% - 25%

$791,000 - $1,318,000

COMMENTS:

Project Scope:

[redacted]

Note:

1. This estimate assumes that Electrical Construction, Test, Lead Commission Engineer (LCE) and Construction Representative will be outsourced.
2. Switching will be done in house
3. If work is being performed on one transformer (either the [redacted] the other transformer will carry the station load.

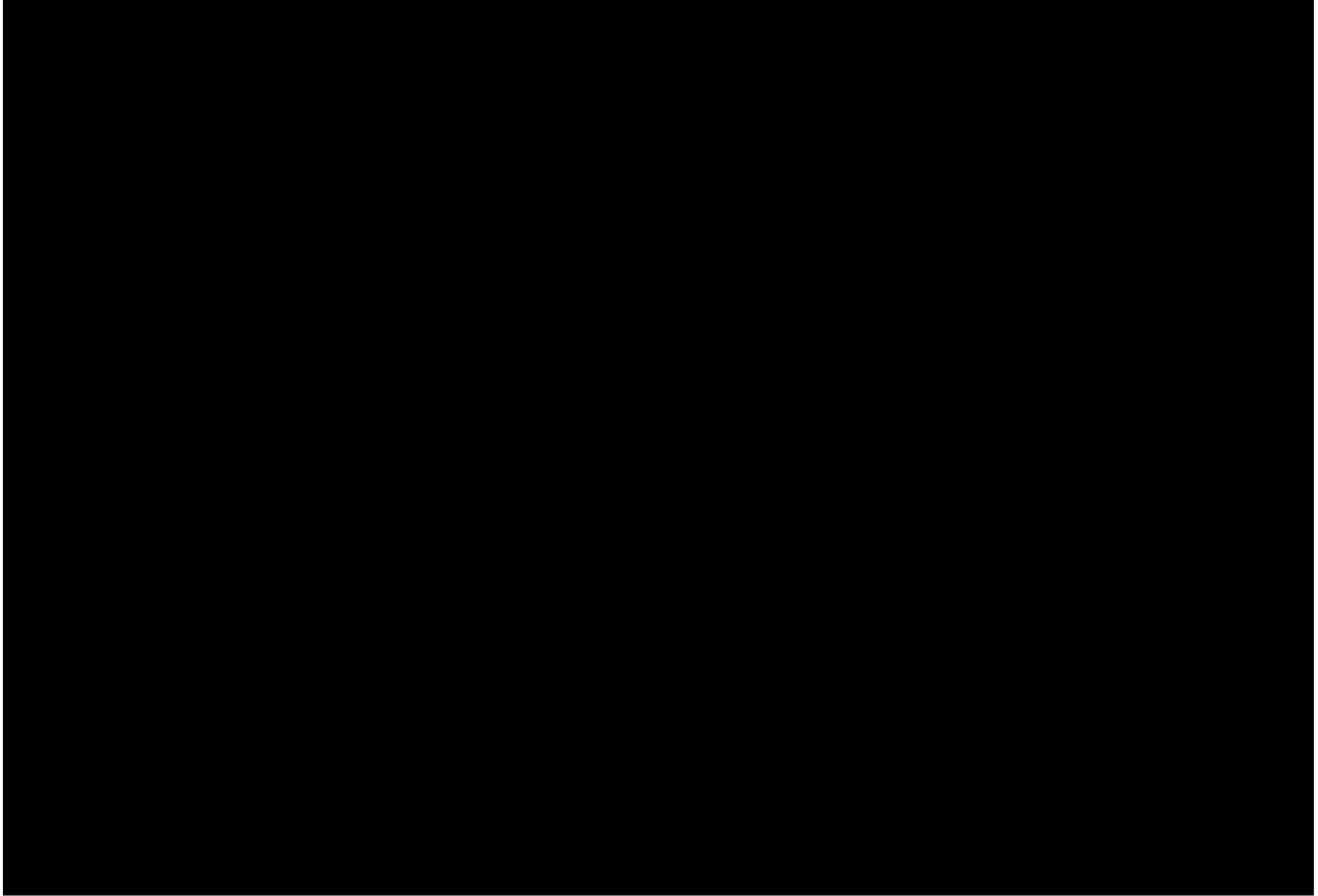
Assumptions/Clarifications;
Indirect rates based on; [redacted] work

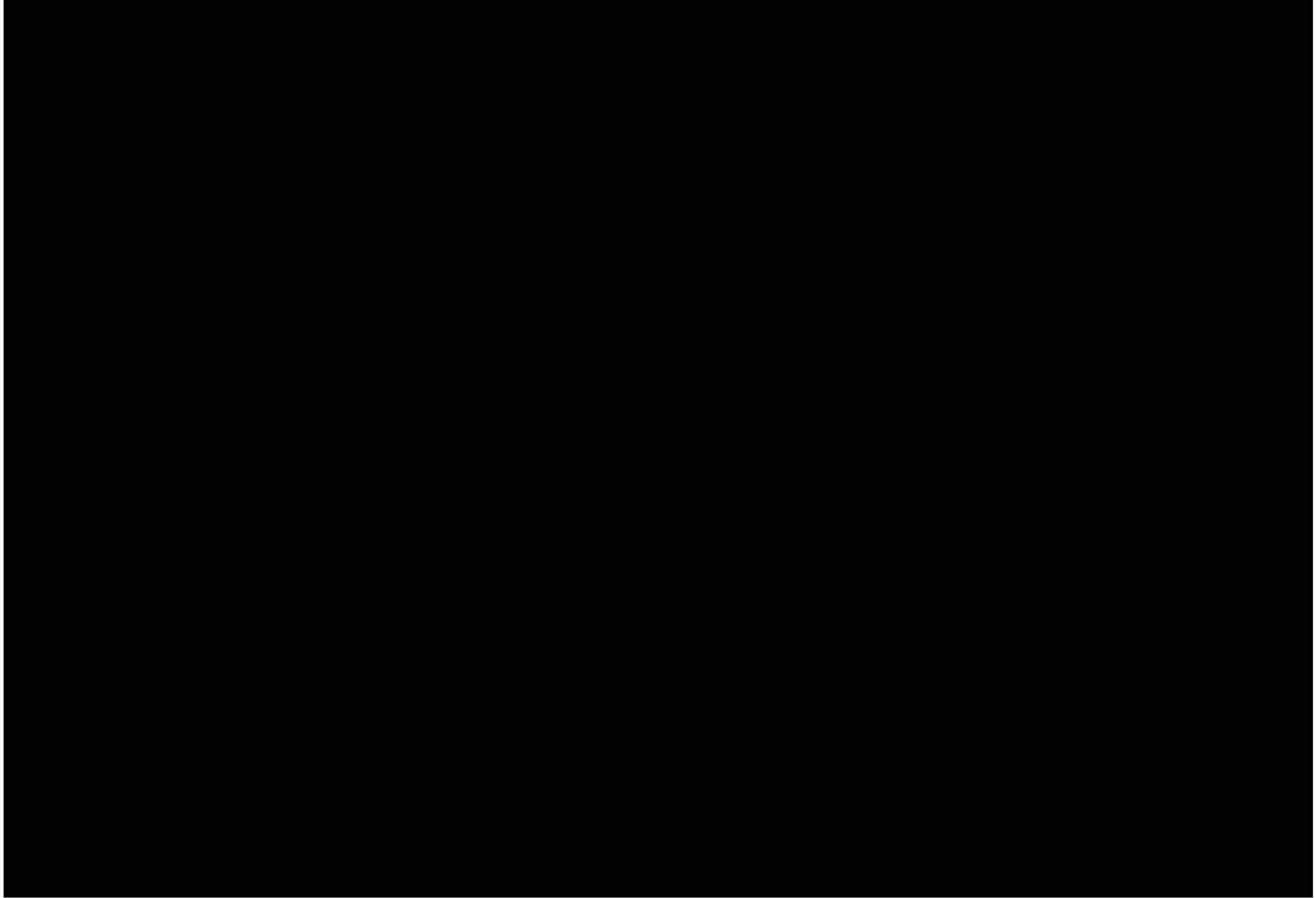
Risks/Contingencies: Mobile transformer
The [redacted]

RISKS

Severe Weather, Delays, OT, Recal time $ 52,900

[redacted]





[redacted]

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Constructability Review Form: **Substation**

Project Title: [redacted] **LTC Controls**	☒	Prior Constructability Review Performed?
	☐	Program Related Site Specific Review?
Project Numbers(s): CS00372	**Project Constructability Phase:**	
Date(s) of Constructability Review: **03/04/2021**	☐ Conceptual Engineering Design	
Click to enter a date	☒ Preliminary Engineering Design	
	☐ Detailed Engineering Design	
Project Scope Statement: Replace LTC controls for the 12S-3X and 12S-4X		

Department Review/Walkdown Attendees*:

Required [X]	Attended [X]	Department	Name	Required [X]	Attended [X]	Department	Name
☐	☒	Project Management	[redacted]	☐	☐	S/S Engineering	[redacted]
☐	☐	Asset Management		☐	☐	P&C Engineering	
☐	☐	Constr. Management		☐	☐	Civil Engineering	
☐	☐	S/S Technical / LCE		☐	☐	Telecom	
☐	☐	S/S Operations**		☐	☐	Environmental	
☐	☐	Field Engineering		☐	☐	Real Estate	
☐	☐	Line Engineering		☐	☐	T&D ROW	
☐	☐	Vegetation Management		☐	☐	Survey Engineering	
☐	☐	Siting		☐	☐	Cost Estimating	
☐	☐	Safety		☐	☐	Outreach (SCS)	
☐	☐	SCADA		☐	☐	Material Procurement	

*** Sign-off in the table above for the Detailed Engineering Design Constructability Review indicates that all Action Items/Concerns from prior Constructability Reviews have been mitigated/resolved as documented in this form. Not every department is required to attend walkdowns for every project but should be consulted for project impact considerations**

** Internal Eversource Substation Operations must be included in the review even if external construction resources are planned

[Project Manager] certifies that this review was performed to completeness, that all applicable departments were informed of the project and have had opportunity to provide input to this review

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Constructability Review Form: **Substation**

[redacted] 3/4/21 *Name / Signature*

Date

Documents available for use prior to Constructability Review					
[X]	Document	[X]	Document	[X]	Document
☐	Initial Scope -Birdseye site plan -General Arrangement	☒	Preliminary Drawings -Civil Site Drawing -Electrical Drawing -Section Drawings	☐	Prints in hand for marking up -Panel Front/Read View -Control Enclosure Layout -Floor / Wall Plans
☐	Detailed Scope Document	☐	Proposed Schedule	☐	Construction Sequence/Timeline
☐	Previous Notes / Comments / Observations	☒	Major Material / Equipment List	☐	Replace / Reuse of equipment

Action Items and Resolutions:

Item No.	Const. Review Action Item/Concern	Design Resolution/Mitigation:
1		
2		
3		
4		
5		

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
A	**Engineering & Asset Management**		
1	**Scope of Work** - Is scope adequately developed and sufficiently detailed for intended deliverable? - Any complimentary projects or other adjacent obsolete equipment for inclusion? - Any overlapping projects that could impact work/outages? - Consider Physical Installation, P&C Scope, Civil Scope, Engineering studies, Design standard adherence - Any remote station impacts?	☐	No Concerns

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
	- Engineering Estimates for Design and Technical Support? (EE and EOC) Total Project		
2	**Materials Identified/Ordered** -Any concerns with BOM/Major Materials? Review BOM lead times and project need dates -Specialty Major Materials: Identify Specialty Equipment & Materials potentials - temporary/replacement - long lead items? -Any Materials needed to facilitate construction access?	N/A	No Concerns
3	**Control House** - Review Unmapped equipment interferences, Control/Battery Enclosure Layout, HVAC System (if equipment added), space for new or modified equipment, AC / DC station breaker availability and service loading, Panel Space, Expansion, one-line and/or riser type panelboard drawings, other..	N/A	
4	**Ratings & Dimensions** for Major Equipment. Any concerns upon field review? Equipment Rating One Line (and/or equipment thermal ratings tables) - Review for any errors in field	N/A	

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
5	**Wall, Fence, Gate, and Foundation Considerations** -Any permanent / temporary alterations or relocations required? -Pre-Project Sound Measurements Needed? Sound Walls? -Take measurements for Foundation quantities, dimensions and concrete volumes -CIP Review/Ballistic needs. Any Physical Security Requirement Consideration? -Assess condition of existing yard equipment foundations and viability for reuse (if proposed) -Review station expansion areas (if needed) for structures, old foundations, etc. -Any Steel Structural Plan Considerations? -Any impacts to construction plan?	☐	No Concerns
6	**Below Grade / Enclosure Raceway** - If possible, evaluate existing raceway and review spacing requirements. Review for any subsurface investigation needs or potential below grade obstructions. GPR/test pits needed? Geotechnical Investigation - is soil boring or resistivity investigation needed?	☐	N/A
7	**Underground Obstructions** -Drawing review concerns? -Is preconstruction or test excavation needed? -Is reuse of underground control cables / Conduits /replace Non-Shielded Cable feasible (if applicable) -Are spare conduits available? Are they useable? -Review if any areas will need to be plated for increased load bearing for equipment access (i.e. large Xfmr, etc.)	☐	N/A
8	**Grounding Plan (Ground Grid)** - Will footprint impact layout or other equipment? Identify locations to improve grounding. Impacts to foundations and ground grid plans. Observations on wetlands or ability to perform tests	☐	N/A

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
9	Nomenclature / Switching One-Line Diagram -Any obvious deviations from diagrams provided?	☐	No Concerns
10	BPS Separation Requirements - Is this BPS Substation? Y/N (part of PAF) - Changes to pre-existing BPS standards?	☐	N/A
11	IEC 61850 Substation Automation and Communication Requirements - Any Impacts/Retrofit needed?	☐	N/A
12	Any Upgrades to ES Standards - Is retrofit needed to bring up to ES standards? Can that be done?	☐	N/A
B	**Construction**		
1	**Any safety hazards specific to the facility? i.e. Low Bus, Deterioration, etc.**	☐	N/A
2	**Prior known Site Specific Conditions** -Common or Obvious station Issues -Missing scope items that could impact costs?	☐	N/A
3	**Identify/Consider Required Depts for Construction?** -Who is constructor: Internal vs External Resources -S/S Ops, GO, Test, Field Engineering, etc -Specialty Contractors Required? -Required Oversite Needed - Estimated level of CR and LCE support needed	☐	External Resources

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
4	**Site Plan, Access, and Temporary Construction Facilities:** -Confirm maintenance access for proposed new or replaced equipment -Verify clear footprint for yard equipment / Property Plan -General access to site, can areas outside substation be utilized? -Substation Entry Plan (driveway and drive path modifications) - Identification of Unique Requirements, i.e. (access bridges, station service, etc.) -Site Development Plan (grading and drainage) with Cut/Fill -Existing Rock Conditions? Potential Impacts (rock quantity)? -Any police details needed for deliveries, restricted hours, and/or need for extended hour approvals -Any Sanitary Civil Requirements? (Septic tanks, etc) -Review turning radius for delivery trucks (if critical) -Any Substation Access and site/yard access Limitations? -Office Trailer Needs: Facilities, Utilities, Restroom, Container, Dumpster Space -Weather impacts to Site (Snow Placement) -Identify Material Laydown and Security -Where will new vs removed equipment go? -Construction permit for trailers outside substation fence?	☐	N/A
5	Unique Equipment Considerations: Gas insulated substation, Gas insulated line, Gas insulated bus, Pass Breaker, Statcom, Sync Condenser		N/A

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
6	**Outage & Energization Plan and Construction Sequence:** *Review electrical working clearances for equipment during construction, Detailed look at protection zone changes, Locked sequence or random outages, Outage durations minimized.* ***Considerations:*** -Approach Distances – Outage Requirements to maintain electrical clearances throughout proposed installation -Distribution Clearances -Clearance Holder Assignments -Drawings vs Field Conditions -Outage boundaries and interconnections -Phased approach needs for additional mobilizations -Verify outage sequence supports the planned construction sequence and timeline. (Lead Commissioning Engineer "LCE", Substation Operations, and Outage Planner input) -Any design alterations or considerations to Eliminate SCLL Conditions, Reduce Recall Time, Reduce Outage durations, Special Conditions -Additional outage requirements: Railroad Catenaries, Fiber outage, SCADA outage, Relay permissions -Seasonal or weather conditions impacts	☐	No Concerns
7	**Equipment Testing & Acceptance** -Grounding plans / Resources? Will we need grounds hung? -Hi-pot testing and where will the equipment be set up?	☐	N/A
8	Need for mobile generator and where connected (if needed)	☐	N/A
9	Need for mobile battery and where connected (if needed)	☐	N/A
10	OT work required or Notable Permit Conditions (special hours)?	☐	N/A
11	Coordination of boundaries/seams (Identification of point of demarcation for connection to existing equipment and/or for coordination with other municipalities)	☐	No Concerns

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
C	**Environmental**		
1	Soil Pre-Characterization or Grab Sampling Completed/Planned	☐	N/A
2	**Desktop investigation and EAD Review** -Required Permits -Stormwater Considerations -Dewatering requirements -Wetland and buffer review	☐	N/A
3	Risk or presence of PCB's/Asbestos/Lead/SF6	☐	N/A
4	Transformer Spill Containment Recommended?	☐	N/A
5	Expanding Footprint / New Buildings or future Expansion Plans? (Enviro Impact)	☐	N/A
6	Environmental oversight considerations? (Inspection type/Interval)	☐	N/A
7	Environmental mitigations - Any matting or seasonal needs? Review D&M Plan with CR.	☐	N/A
D	**Siting, S&CS, and T&D Real Estate**		
1	**Any regulatory concerns or approvals needed?** - Consider scope/design alterations to mitigate concerns - Consider Visual screening considerations (feasibility or location) -Zoning Relief and Permits required	☐	N/A
2	**Neighbor/Abutter impacts:** - Any noise, visual impacts, or sensitive abutters - Any changes to lighting or additional lighting needed?	☐	N/A
3	Review for roadway, gate access, trailers, equip height, noise, weekend/night work, or any potential public disturbance related to work	☐	N/A
4	Installation within Eversource Rights - Is Rights and Restrictions Review required?	☐	N/A
5	Expanding Footprint / New Buildings or future Expansion Plans?	☐	N/A
6	Proposed Equipment on same property? - Any Encroachments	☐	N/A

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Constructability Review Form: **Substation**

	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
F	**Protection & Controls**		
1	Panel Graphic additions and/or Modifications	☐	No Concerns
2	Space on existing panels for new equipment? (front & rear of panel fronts)	☐	No Concerns
3	Panel fronts conform to drawings	☐	No Concerns
4	Access to bring new panels into control enclosure	☐	N/A
5	Nameplate list and location of nameplates	☐	N/A
6	Verifies that relays and meters that will be an interconnected project work are as shown on the drawings.	☐	No Concerns
7	Temporary protection, relays, control cable needed? How long will they be required?	☐	N/A
8	Will relay setting changes be needed? Any additional outage requirements for changes?		N/A
G	**Telecom Engineering**		
1	Review telecom equipment in existing control enclosure	☐	N/A
2	Review path to get telecom circuits into the station and paths within the control house. Determine whether new underground duct or overhead tray work is needed.	☐	N/A
3	Review current or proposed Telecom equipment power connections and validate with P&C any need for system 1 and system 2 separation.	☐	N/A
4	Review current Telecom fiber diversity and validate with P&C any fiber diversity requirements.	☐	N/A
5	Review and list any remote station impacts/updates	☐	N/A
6	Confirm whether correct interface equipment is available (i.e.) for fiber termination or multiplexor termination	☐	N/A
7	Confirm whether existing communications cabinets are enough to support additional telecommunications equipment installed	☐	N/A

EVERSOURCE

Constructability Review Form: **Substation**

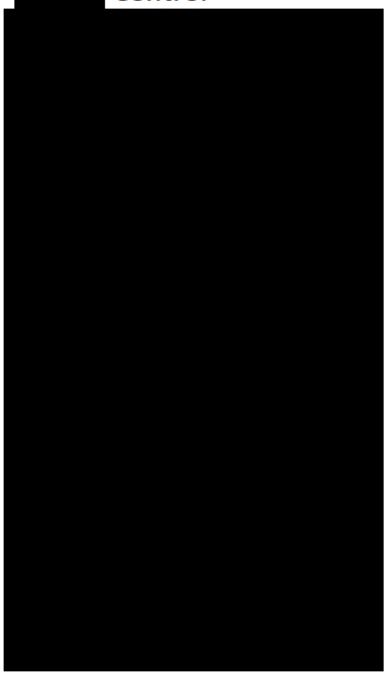
	Key Review Item Description	N/A or No Concern	Review Notes, Concerns, or Additional Info Needed
8	Review space for any required additional communications cabinets which may be required to support additional telecommunications equipment installed	☐	N/A
9	Review third party Telecommunications at substation and confirm whether additional capacity or Ground Potential Rise protection is required	☐	N/A

Photos

(Ex. Equipment control cabinet, Breakers, MODs, CCVTs, PTs, Transformers)



[redacted] *Control*



[redacted] *control*

EVERSOURCE

Constructability Review Form: **Substation**

Activity ID	Activity Name	Activity Status	Original Duration	Start	Finish	Activity Scheduler	Total Float	Project Scheduler	S/S - SUBSTATION	SubStation	Activity Flag
CS00372	**[redacted] - Replace 3X and 4X LTC Controls - CS00372**		383	07/03/2020 A	02/04/2022		0	AJA		12S	
CS00372.01	**INITIALIZATION AND SCOPE DEVELOPEMENT**		301	11/23/2020	02/04/2022		0	AJA		12S	
CS00372.01.00	**Initial Funding**		21	11/23/2020	12/22/2020		280	AJA		12S	
PI1200	Project Initiator Develop Intitial Funding Request	Not Started	10	11/23/2020*	12/07/2020		-24	AJA		12S	
PI1300	Initial Funding Request Approved	Not Started	10	12/08/2020	12/21/2020		-24	AJA		12S	EPAC-I
PI1000	Submit Initial Funding Request	Not Started	0		12/07/2020		-24	AJA	Line	12S	
PI1400	Assign Project Manager	Not Started	1	12/22/2020	12/22/2020		280	AJA	Line	12S	
PI1500	Assign Scheduler	Not Started	1	12/22/2020	12/22/2020		280	AJA	Line	12S	
PI1600	Assign Cost Analyst	Not Started	1	12/22/2020	12/22/2020		280	AJA	Line	12S	
PI1610	Request Project Team/Resources	Not Started	1	12/22/2020	12/22/2020		-24	AJA	Line	12S	
CS00372.01.00.02	**SCOPE DOCUMENTS**		4	12/08/2020	12/11/2020		287	AJA		12S	
A3340	Review, Issue & File Scope Document in Workbook (supports T-30.01 M/S) [KPI]	Not Started	3	12/09/2020	12/11/2020		287	AJA	18G	12S	** KPI **
A3350	ES Prepares Scope Document	Not Started	1	12/08/2020	12/08/2020		287	AJA	18G	12S	
CS00372.01.09	**Project Initiation**		19	01/22/2021	02/18/2021		-7	AJA		12S	
CS00372.01.09.3	**EPAC Full Funding**		19	01/22/2021	02/18/2021		-7	AJA		12S	
FF1000	EPAC Full Funding Approval	Not Started	0		02/18/2021		-7	AJA		12S	EPAC-F
DE1600	Create Planning Grade Estimate (+/-25% Full Funding)	Not Started	5	01/28/2021	02/03/2021		-7	AJA	Line	12S	EST-FULL
DE1700	Conduct Initial Risk Management & SCLL Review (Project Initiator & PM)	Not Started	2	01/26/2021	01/27/2021		-7	AJA	Line	12S	
OP221000	OP-22 Go/No-Go Pre PAF	Not Started	1	02/04/2021	02/04/2021		2	AJA	Line	12S	
OP241000	OP-24 Go/No-Go Pre PAF (If Not Required, N/R this Act. and Continue with the Process	Not Started	1	02/04/2021	02/04/2021		2	AJA	Line	12S	
DE1800	Review Detail Siting & Permitting (If Required)	Not Started	1	01/22/2021	01/22/2021		-7	AJA		12S	
DE1900	Conduct Detail Constructability Walk Down	Not Started	1	01/25/2021	01/25/2021		-7	AJA		12S	
PAFF2000	Submit Full Funding PAF for Internal Review	Not Started	5	02/04/2021	02/10/2021		-7	AJA		12S	
PAFF2100	Incorporate Internal Review Comments & Submit Full Funding PAF to EPAC for Review	Not Started	3	02/11/2021	02/16/2021		-7	AJA		12S	PAF
PAFF2200	Incorporate EPAC Full Funding PAF Review Comments	Not Started	2	02/17/2021	02/18/2021		-7	AJA		12S	
DE1710	Project Contstructability Review Complete	Not Started	2	01/26/2021	01/27/2021		-7	AJA		12S	Construct
CS00372.01.2	**T-Minus Milestones**		301	11/23/2020	02/04/2022		0	AJA		12S	
CS00372.01.2.01	**Civil T-Minus Milestones**		189	11/23/2020	05/31/2021		0	AJA		12S	
AT0814	A-T-08.14 Construction Contracts / PSA in Place	Not Started	0		04/04/2021		0	AJA		12S	
AT1811	A-T-18.11 70% Design / Engineering Completed	Not Started	0		01/24/2021		0	AJA		12S	70%
AT2605	A-T-26.05 30% Design / Engineering Completed	Not Started	0		11/29/2020		0	AJA		12S	30%
AT3001	A-T-30.01 Engr Project Scoping Document Issued (Scope Lockdown) ** Re-i	Not Started	0		11/23/2020		-21	AJA		12S	
AT00	A-T-00 - Start of (Provide GOOD Work Description, INCLUDE the WO#)	Not Started	0	05/31/2021*			0	AJA		12S	
AT0203	A-T-02.03 Go / No-Go [CAN] Construction Authorization Notice Form Complete	Not Started	0		05/16/2021		0	AJA		12S	

TASK filter: All Activities

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Activity ID	Activity Name	Activity Status	Original Duration	Start	Finish	Activity Scheduler	Total Float	Project Scheduler	S/S - SUBSTATION	SubStation	Activity Flag
AT0401	A-T-04.01 Final Material Receipt Review Completed *ES Purchased*	Not Started	0		05/02/2021	[redacted]	0	AJA		12S	
AT0801	A-T-08.01 Permits Approved / Received	Not Started	0		04/04/2021		0	AJA		12S	
AT1801	A-T-18.01 All Firm TOA Applications Due to LCC	Not Started	0		11/23/2020*		63	AJA		12S	
AT0408	A-T-04.08 TCA (12C) Documentation - Submitted to System Planning	Not Started	0		05/02/2021		0	AJA		12S	
CS00372.01.2.1	**Electrical T-Milestones**		439	11/23/2020	02/04/2022		0	AJA		12S	
BT0602	B-T-06.02 Units of Property (Items) Issued to Plant Accounting	Not Started	0		02/09/2021		0	AJA		12S	
BT0814	B-T-08.14 Construction Contracts / PSA in Place	Not Started	0		02/09/2021		0	AJA		12S	
BT1811	B-T-18.11 70% Design / Engineering Completed	Not Started	0		02/09/2021		0	AJA		12S	70%
BT2404	B-T-24.04 Determine / Assign Commissioning Engineer	Not Started	0		02/04/2022		0	AJA		12S	
BT2605	B-T-26.05 30% Design / Engineering Completed	Not Started	0		02/09/2021		0	AJA		12S	30%
BT0203	B-T-02.03 Go / No-Go [CAN] Construction Authorization Notice Form Complete	Not Started	0		02/09/2021		0	AJA		12S	
BT0401	B-T-04.01 Final Material Receipt Review Completed *ES Purchased*	Not Started	0		02/04/2022		0	AJA		12S	
BT0801	B-T-08.01 Permits Approved / Received	Not Started	0		02/09/2021		0	AJA		12S	
BT1805	B-T-18.05 NX-9 Rating to LCC + ISO for New 'T' Equipment (NC=Per Procedure/120 ca	Not Started	0		11/23/2020*		79	AJA		12S	
BT1801	B-T-18.01 All Firm TOA Applications Due to LCC	Not Started	0		11/23/2020*		79	AJA		12S	
BT1202	B-T-12.02 P/C Description / Draft OI Issued To LCC	Not Started	0		02/04/2022		0	AJA		12S	
BT1301	B-T-13.01 Commissioning Plan Complete	Not Started	0		02/04/2022		0	AJA		12S	
BT0301	B-T-03.01 NX-9 Ratings to LCC & ISO for Existing Equipment (EM=Per Procedure/15 bu	Not Started	0		03/10/2021*		331	AJA		12S	
BT0408	B-T-04.08 TCA (12C) Documentation - Submitted to System Planning	Not Started	0		02/09/2021		0	AJA		12S	
BT1003	B-T-10.03 PPA (I.3.9) Approval Received	Not Started	0		02/09/2021		0	AJA		12S	
BT00	B-T-00 - Start of (Provide GOOD Work Description, INCLUDE the WO#)	Not Started	0	02/10/2021*			0	AJA		12S	
CS00372.01.2.2	**P&C T-Minus Milestones**		110	11/23/2020	05/03/2021		0	AJA		12S	
CT0814	C-T-08.14 Construction Contracts / PSA in Place	Not Started	0		03/07/2021		0	AJA		12S	
CT1811	C-T-18.11 70% Design / Engineering Completed	Not Started	0		12/27/2020		0	AJA		12S	70%
CT2404	C-T-24.04 Determine / Assign Commissioning Engineer	Not Started	0		11/23/2020		-7	AJA		12S	
CT2605	C-T-26.05 30% Design / Engineering Completed	Not Started	0		11/23/2020		-21	AJA		12S	30%
CT0805P	C-T-08.05P IFC - P&C w/BOM	Not Started	0		03/07/2021		0	AJA		12S	
CT00	C-T-00 - Start of (Provide GOOD Work Description, INCLUDE the WO#)	Not Started	0	05/03/2021*			0	AJA		12S	
CT0404	C-T-04.04 All Final Relay Protective Settings Issued	Not Started	0		04/04/2021		0	AJA		12S	
CT0203	C-T-02.03 Go / No-Go [CAN] Construction Authorization Notice Form Complete	Not Started	0		04/18/2021		0	AJA		12S	
CT0401	C-T-04.01 Final Material Receipt Review Completed *ES Purchased*	Not Started	0		04/04/2021		0	AJA		12S	
CT1201	C-T-12.01 SCADA Data (Tab) Sheets Sent to LCC	Not Started	0		02/07/2021		0	AJA		12S	
CT1202	C-T-12.02 P/C Description / Draft OI Issued To LCC	Not Started	0		02/07/2021		0	AJA		12S	
CT1301	C-T-13.01 Commissioning Plan Complete	Not Started	0		01/31/2021		0	AJA		12S	

TASK filter: All Activities

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Activity ID	Activity Name	Activity Status	Original Duration	Start	Finish	Activity Scheduler	Total Float	Project Scheduler	S/S - SUBSTATION	SubStation	Activity Flag
CT0408	C-T-04.08 TCA (12C) Documentation - Submitted to System Planning	Not Started	0		04/04/2021		0	AJA		12S	
CT0901	C-T-09.01 Protection System Data - OP-24 Requirement (Tie to First Start of Constructi	Not Started	0		11/23/2020*		-14	AJA		12S	
CS00372.05 ENGINEERING & DESIGN			166	07/03/2020 A	03/25/2021		217	AJA		12S	
CS00372.05.01 Civil Engineering			43	12/23/2020	02/25/2021		-7	AJA		12S	
DSSE-100	Design Package to Civil	Not Started	10	12/23/2020	01/07/2021		-4	AJA	Line	12S	
DSSE-110	Civil Package to Design	Not Started	10	01/08/2021	01/22/2021		-4	AJA	Line	12S	S-PRELIM
DSSE-120	Civil Package IFC	Not Started	5	02/19/2021	02/25/2021		-7	AJA	Line	12S	ES-IFC
CS00372.05.02 Electrical Engineering			63	12/23/2020	03/25/2021		217	AJA		12S	
DSSE-205	Detail (70%) Electrical Design Package Drafting	Not Started	10	01/25/2021	02/05/2021		-24	AJA	Line	12S	ES-DTL
DSSE-210	100% Electrical Design Package IFR	Not Started	10	02/08/2021	02/22/2021		-9	AJA	Line	12S	ES-100%
DSSE-230	Electrical Engineering - BOM Complete	Not Started	2	03/24/2021*	03/25/2021		217	AJA	Line	12S	
DSSE-240	Electrical Engineering - Electrical Package IFC (Physical & Electrical)	Not Started	5	02/23/2021	03/01/2021		-9	AJA	Line	12S	ES-IFC
DSSE-460	Operating Instructions - SSED Review Draft Distribution OI	Not Started	5	03/19/2021	03/25/2021		217	AJA	Line	12S	
DSSE-200	Detail (70%) Electrical Design Package Design	Not Started	10	01/08/2021	01/22/2021		-24	AJA	Line	12S	ES-DTL
DSSE-260	Submit Electrical Design to Siting & Permitting for Filing w/Regulator Authority	Not Started	10	12/23/2020	01/07/2021		270	AJA		12S	
DSSE-920	Operating Instructions - SSED Review Draft Convex OI	Not Started	5	03/19/2021	03/25/2021		217	AJA	Line	12S	
DSSE-1000	Initiate CASCADE Forms (Appendix A) for Tunnel 12S	Not Started	20	02/26/2021	03/25/2021			AJA		12S	
CS00372.05.03 Distribution Thermal Ratings NX-9			166	07/03/2020 A	03/25/2021		217	AJA		12S	
NX9A-EM04	N/R (per ML 3-7-20) LTRC Reviews and Makes "GO / NO-GO" Decision for 1-Line Nome	Completed	5	07/03/2020 A	07/03/2020 A			AJA		12S	
NX9A-EM01	N/R PE Completes PE Checklist M7-EN-3006.2 - e-mail link to project team & CONVEX	Not Started	5	01/08/2021	01/14/2021		228	AJA		12S	** KPI **
NX9A-EM16	P&C Develops and Provides LTRC with P&C Checklist & Thermal Ratings Data (M7-EN	Not Started	5	02/01/2021	02/05/2021		228	AJA		12S	
NX9A-EM31	TRC Review and Submit NX-9 Data to LCC + ISO-NE for S/S Thermal Rating	Not Started	5	03/03/2021	03/09/2021		228	AJA		12S	
NX9A-EM13	LTRC Requests P&C Checklist	Not Started	5	01/25/2021	01/29/2021		228	AJA		12S	
NX9A-EM28	Scheduler @ NURS email "Submitted for PP Review" - Updates NURS with DOE	Not Started	1	03/02/2021	03/02/2021		228	AJA		12S	
NX9A-EM25	LTRC Sends Thermal Rating Data for Approval & Submit to NURS	Not Started	5	02/23/2021	03/01/2021		228	AJA		12S	** KPI **
NX9A-EM22	TRC Reviews and Approves Thermal Rating Data	Not Started	5	02/16/2021	02/22/2021		228	AJA		12S	
NX9A-EM19	LTRC Reviews and Sends Thermal Rating Data for TRC Review	Not Started	5	02/08/2021	02/12/2021		228	AJA		12S	
NX9A-EM34	Scheduler @ NURS email "Submitted for DOE Monitoring" - Updates T-3, EquipDOE, R	Not Started	1	03/10/2021	03/10/2021		228	AJA		12S	
NX9A-EM07	N/R (per ML 3-7-20) LTRC Submits1-Line Nomenclature to TRC	Completed	5	07/03/2020 A	07/03/2020 A			AJA		12S	
NX9A-EM10	LTRC Reviews and Makes "GO / NO-GO" Decision for Thermal Ratings - Requiring NX-9	Not Started	5	01/15/2021	01/22/2021		228	AJA		12S	
CS00372.05.03.05 Non NX-9 Thermal Ratings			20	02/26/2021	03/25/2021		217	AJA		12S	
NX9A-EM44	P&C Develops and Provides LTRC with P&C Checklist & Thermal Ratings Data	Not Started	5	02/26/2021*	03/04/2021		217	AJA		12S	
NX9A-EM74	LTRC Files Capability Sheets	Not Started	5	03/19/2021	03/25/2021		217	AJA		12S	
NX9A-EM64	TRC Reviews and Approves Thermal Rating Data	Not Started	5	03/12/2021	03/18/2021		217	AJA		12S	

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Activity ID	Activity Name	Activity Status	Original Duration	Start	Finish	Activity Scheduler	Total Float	Project Scheduler	S/S - SUBSTATION	SubStation	Activity Flag
NX9A-EM54	LTRC Prepares and Sends Thermal Rating Data for TRC Review	Not Started	5	03/05/2021	03/11/2021	[redacted]	217	AJA		12S	
CS00372.05.04 P&C Engineering			65	12/21/2020	03/25/2021		217	AJA		12S	
DSSE-400	Prepare & Issue P&C Design Package to Drafting @	Not Started	10	12/21/2020	01/05/2021		-24	AJA	Line	12S	S-PRELIM
DSSE-220	SDS Complete	Not Started	2	02/23/2021	02/24/2021		238	AJA	Line	12S	ES-IFC
DSSE-470	Operating Instructions - P&C Review Draft Distribution OI	Not Started	5	03/19/2021	03/25/2021		217	AJA	Line	12S	
DSSE-930	Operating Instructions - P&C Review Draft Convex OI	Not Started	5	03/19/2021	03/25/2021		217	AJA	Line	12S	
DSSE-450	Operating Instructions - Prepare and Issue Draft Distribution OI to Engineering	Not Started	10	03/05/2021	03/18/2021		217	AJA		12S	
DSSE-410	Drafted Package to P&C (30% Review) @	Not Started	6	01/08/2021*	01/15/2021		230	AJA	Line	12S	S-PRELIM
DSSE-420	P&C DR Submitted KPI @	Not Started	1	01/22/2021*	01/22/2021		260	AJA	Line	12S	S-PRELIM
DSSE-430	Design Package to Drafting (70% Review) @	Not Started	34	01/19/2021*	03/08/2021		230	AJA	Line	12S	S-PRELIM
CS00372.05.04.1 Relay Settings			10	02/26/2021	03/11/2021		217	AJA		12S	
DSSE-440	Relay Settings - Prepare and Issue Relay Settings IFC	Not Started	10	02/26/2021*	03/11/2021		217	AJA	Line	12S	ES-RSET
CS00372.06 MATERIAL			45	01/15/2021	03/22/2021		-24	AJA		12S	
DSSE-500	Prepare & Issue DR for Civil	Not Started	5	01/15/2021	01/22/2021		-4	AJA	Line	12S	DR-ENG
DSSE-520	Prepare & Issue DR for LTC Controls	Not Started	5	02/01/2021	02/05/2021		-24	AJA	Line	12S	DR-ENG
DSSE-550	LTC Control Delivery	Not Started	30	02/08/2021	03/22/2021		-24	AJA		12S	M-DELIV
DSSE-560	Civil Material Delivery	Not Started	20	01/25/2021	02/22/2021		-4	AJA		12S	M-DELIV
CS00372.07 CONSTRUCTION			277	11/23/2020	12/30/2021		24	AJA		12S	
ISD	EQUIPMENT IN SERVICE DATE (requires FOOB constraint)	Not Started	0		12/30/2021*		0	AJA	Line	12S	ISD
DSSE-CST	Construction Start Milestone	Not Started	0	03/23/2021*			-29	AJA	Line	12S	SOC
DSSE-980	General Construction Work	Not Started	53	03/23/2021	06/04/2021		-24	AJA		12S	
DSSE-OUT	Outage Start	Not Started	0	11/23/2020*			301	AJA		12S	OUT
DSSE-990	(TOA: #) At Tunnel 12S - Replace 3X and 4X LTC Controls	Not Started	53	11/23/2020	02/09/2021		248	AJA		12S	
CS00372.07.02 Electrical Construction			277	11/23/2020	12/30/2021		24	AJA		12S	
CS00372.07.02.02 Control House - Electrical			277	11/23/2020	12/30/2021		24	AJA		12S	
CS00372.07.02.02.2 Structure Replacements - Outage 1			277	11/23/2020	12/30/2021		24	AJA		12S	
CS00372.07.02.02.2.01 Construction			277	11/23/2020	12/30/2021		23	AJA		12S	
A3380	EQUIPMENT IN SERVICE DATE (requires FOOB constraint)	Not Started	0		12/30/2021*		-255	AJA	Line	12S	ISD
A3390	Construction Start Milestone	Not Started	0	11/23/2020*			-40	AJA	Line	12S	SOC
A3400	General Construction Work	Not Started	53	11/23/2020	02/09/2021		-31	AJA		12S	
A3410	Outage Start	Not Started	0	11/23/2020*			-31	AJA		12S	OUT
A3420	(TOA: #) At Tunnel 12S - Replace 3X and 4X LTC Controls	Not Started	53	11/24/2020	02/10/2021		246	AJA		12S	
CS00372.07.02.02.2.02 Switching			59	11/23/2020	02/11/2021		256	AJA		12S	
A3360	Switch in of TOA#	Not Started	1	02/11/2021	02/11/2021		256	AJA	Line	12S	

TASK filter: All Activities

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Activity ID	Activity Name	Activity Status	Original Duration	Start	Finish	Activity Scheduler	Total Float	Project Scheduler	S/S - SUBSTATION	SubStation	Activity Flag
A3370	Switch out of TOA#	Not Started	1	11/23/2020	11/23/2020	[redacted]	256	AJA	Line	12S	
CS00372.07.02.02.1 Structure Replacements - Outage 2			277	11/23/2020	12/30/2021		24	AJA		12S	
CS00372.07.02.02.1.01 Construction			277	11/23/2020	12/30/2021		23	AJA		12S	
A3450	EQUIPMENT IN SERVICE DATE (requires FOOB constraint)	Not Started	0		12/30/2021*		0	AJA	Line	12S	ISD
A3460	Construction Start Milestone	Not Started	0	11/23/2020*			279	AJA	Line	12S	SOC
A3470	General Construction Work	Not Started	53	11/23/2020	02/09/2021		224	AJA		12S	
A3480	Outage Start	Not Started	0	11/23/2020*			224	AJA		12S	OUT
A3490	(TOA: #) At Tunnel 12S - Replace 3X and 4X LTC Controls	Not Started	53	11/24/2020	02/10/2021		246	AJA		12S	
CS00372.07.02.02.1.02 Switching			59	11/23/2020	02/11/2021		256	AJA		12S	
A3430	Switch in of TOA#	Not Started	1	02/11/2021	02/11/2021		256	AJA	Line	12S	
A3440	Switch out of TOA#	Not Started	1	11/23/2020	11/23/2020		256	AJA	Line	12S	
CS00372.10 PROJECT CLOSE OUT			277	11/23/2020	12/30/2021		0	AJA		12S	
DSSE-900	N/R Prepare Civil Field Mark Ups (Tie after Last Civil Construction Activity)	Not Started	2	06/07/2021	06/08/2021		143	AJA		12S	
DSSE-910	Test Group Prepare Electrical Field Mark Ups (Tie after ISD)	Not Started	2	12/02/2021	12/03/2021		0	AJA		12S	
CS00372.10.01 Civil As-Builts			22	06/09/2021	07/09/2021		143	AJA		12S	
DSSE-860	N/R Eversource Engineering Verifies Civil Mark Up As-Built Drawing Package	Not Started	10	06/09/2021	06/22/2021		143	AJA		12S	
DSSE-870	N/R Transmittal, Approve Final As-Built Package, and EDC Files and Issue Drawings to I	Not Started	8	06/28/2021	07/08/2021		143	AJA		12S	ES-ASB
DSSE-880	N/R PM to Document Civil As-Built Drawings Complete	Not Started	1	07/09/2021	07/09/2021		143	AJA		12S	
DSSE-890	N/R Tie to Project Complete Milestone (Delete this Activity and make the tie or make the	Not Started	0		07/09/2021		143	AJA		12S	
DSSE-970	N/R Eversource Engineering Updates Civil As-Built Drawing Package	Not Started	3	06/23/2021	06/25/2021		143	AJA		12S	
CS00372.10.02 Electrical As-Builts			18	12/06/2021	12/30/2021		0	AJA		12S	
DSSE-820	Eversource Engineering Verifies Electrical Mark Up As-Built Drawing Package	Not Started	10	12/06/2021*	12/17/2021		0	AJA		12S	
DSSE-830	ES Create Transmittal, Approve Final As-Built Package, and EDC Files and Issue Drawin	Not Started	8	12/20/2021	12/30/2021		0	AJA		12S	ES-ASB
DSSE-840	PM to Document Electrical As-Built Drawings Complete	Not Started	1	12/30/2021	12/30/2021		0	AJA		12S	
DSSE-940	Eversource Engineering Updates Electrical As-Built Drawing Package	Not Started	3	12/15/2021	12/17/2021		0	AJA		12S	
CS00372.10.03 P&C As-Builts			5	12/13/2021	12/17/2021		8	AJA		12S	
DSSE-950	P&C Submits SDS As-Builts	Not Started	5	12/13/2021*	12/17/2021		8	AJA		12S	
DSSE-960	P&C Submits Relay Setting As-Builts	Not Started	5	12/13/2021*	12/17/2021		8	AJA		12S	
CS00372.10.04 Project Management Close Out			277	11/23/2020	12/30/2021		0	AJA		12S	
A3500	PM Prepares Closeout Documentation, Lessons Learned Meeting, etc.	Not Started	5	11/23/2020	11/30/2020			AJA		12S	
A3510	Project / Work Order Complete	Not Started	0		12/30/2021			AJA		12S	

TASK filter: All Activities

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