

**STATE OF NEW HAMPSHIRE
BEFORE THE PUBLIC UTILITIES COMMISSION
Unitil Energy Systems, Inc.
Docket No: DE 22-026
Department of Energy Data Requests to Unitil
May 6th, 2022 Set 1**

Request No. DOE 1-5:

Reference Schedule CGKS-1, Line 36, Conversion Downtown Concord-Part 2, and Schedule CGKS-2 at 129-130. Please provide the following information:

- a. Given that the project was originally scheduled to be placed in service and used and useful in 2020, explain the factors that caused the project to expand and carryover into 2021? Please provide an update on the status of the project as of December 31, 2021. Is the project now complete? If not, why not, and what is the new completion date?
- b. A fully updated version of DOE Data Response 4-71, parts a and b, from Docket DE 21-030.
- c. A detailed description and explanation supporting the install amount of \$424,394 for 2021. Please tie this amount to the cost records in Schedules CGKS-3 and CGKS-4.

Response:

- a. The Conversion Downtown Concord-Part 2 authorization was the second part of a planned multi-year conversion project related to the upgrade of the Gulf St. substation. The entire project included authorizations for Substation work, subtransmission work and distribution work. All the work of the entire project was in service and used and useful in 2020, except for the Conversion Downtown Concord-Part 2 authorization. The scope of the Part-2 project was to convert a second circuit (1H1) from 4 kV to 13.8 kV and transfer this circuit from the Bridge St. substation to the new Gulf St. substation. This was done to utilize more capacity of Gulf Street substation and to allow circuit tying capability such that the reliability of the circuits was not diminished. This work was completed and used and useful prior to December, 2021.
- b. Please refer to the table below for an update to the expected load additions table provided in part a of the DOE Data Response 4-71 from Docket DE 21-030. The Company has provided updates from the customers/developers.

STATE OF NEW HAMPSHIRE
BEFORE THE PUBLIC UTILITIES COMMISSION
Unitil Energy Systems, Inc.
Docket No: DE 22-026
Department of Energy Data Requests to Unitil
May 6th, 2022 Set 1

Location	Proposed Load (kVA)	In-Service?	Notes
18 S. Main St.	250	Yes	Open and functioning recovering from the Pandemic - Bank of NH Stage
20 S. Main St	500	No	Developer meeting with City Planning Dept. this June for approvals on a project to being this fall - multi use
5-7 Pleasant ST.	800	Yes	
32-34 S. Main St.	1000	No	Waiting for sale of property to private developer - mixed use residential development planned to being fall of 2022
1-4 Depot St.	200	No	Residential project expected to be in service by end of summer 2022
97 Storrs St.	500	No	Developer waiting for the economy to soften before building - construction costs too high at this point. Looking to 2024
80 Storrs St.	200	No	Developing site for 2 restaurants and one retail building with 3 tenants - construction to start June 2022
34-42 N. Main St.	300	No	Owner submitting plans to City council for approval late 2022 depending on economy; plans to start construction Q2 2023
56 N. Main St.	400	No	CVS vacated building owner looking for new tenants while the adjacent site is being developed
58-68 N. Main St.	75	Yes	First floor tenants have occupied the space and are operational (Bank lease)
76-82 N. Main St.	280	Yes	Construction complete and tenants are in the building
Eagle Square	300	No	Project delayed due to pandemic – new schedule yet to be developed
Dubois Ave	unknown	No	Owner has held off on developing this parcel - waiting for economy to recover
18-22 Low Ave	75	Yes	No changes to building
8-14 Dixon Ave	200	Yes	Building rehab complete - most tenant spaces occupied
120-146 N. Main St.	300	Yes	Construction complete and occupied

The table below lists the peak load in 2020 as compared to 2021 of the circuits serving the downtown area. This provides a comparison of the downtown Concord circuits serving the area. In order to balance loads and capacity, load can be transferred from one circuit (and substation) to another. The construction of the Gulf St. substation was

**STATE OF NEW HAMPSHIRE
BEFORE THE PUBLIC UTILITIES COMMISSION
Unitil Energy Systems, Inc.
Docket No: DE 22-026
Department of Energy Data Requests to Unitil
May 6th, 2022 Set 1**

completed and in service at the end of 2020. The Company notes that the load increased by almost 10% $((13,750-12,511) / 12,511 * 100 = 9.9\%)$. The Company expects load will growth an additional 16% $(2,263/13,750 * 100= 16.5\%)$.

Circuit Summer Peak Load (kVA) Projected Additional load (kVA)

<u>Circuit</u>	<u>Summer Peak Load (kVA)</u>		<u>Projected Additional load (kVA)</u>
	<u>2020</u>	<u>2021</u>	
1H2	922	1,095	128
1H3	1,391	1,476	13
1H4	764	937	552
3H2	1,842	1,824	34
3W1	3,821	2,369	1,485
3W3	2,233	3,041	26
7X1	1,538	3,008	26
Total	12,511	13,750	2,263

c. The scope of Part-2 of the project was to convert a second circuit (1H1) from 4 kV to 13.8 kV and transfer this circuit from the Bridge St. substation to the Gulf St. substation. The conversion work entailed reconductoring and reinsulating portions of the circuit, replacing distribution transformers, installing step down transformers where conversion was not practical, and connecting the rebuilt circuit to the new substation.

Schedules CGKS-3 and CGKS-4 provide the cost records of multiple categories listed by month for all specific projects, and blankets respectively. CGKS-3 provides the total cost of the project (including installed costs, cost of removal, and salvage costs). Pages 97 – 103 of CSKS-3 list the project spending for Conversion Downtown Concord-Part 2 (Authorization 200124). Removing the salvage amount of -636, and the Cost of removal amount of 89,221, provides the installed cost of the project, \$424, 394.

Person Responsible: Kevin Sprague

Date: 5/18/2022