

# EAST CAROLINA UNIVERSITY

Utilities Infrastructure Condition Assessment

Main Campus Electrical Distribution  
Asset MELEC

Inspected March 24, 2022





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# Section 1



### ASSET EXECUTIVE SUMMARY

All costs shown as Present Value

<b>ASSET CODE</b> MELEC	<b>CURRENT REPLACEMENT VALUE</b> \$43,809,400
<b>ASSET NAME</b> MAIN CAMPUS ELECTRICAL DISTRIBUTION	
<b>ASSET USE</b> Infrastructure	
<b>YEAR BUILT</b> 1968	
<b>GSF</b> NA	
<b>INSPECTION DATE</b> 03/24/2022	
	<b>FACILITY CONDITION NEEDS INDEX</b> 0.24
	<b>FACILITY CONDITION INDEX</b> 0.00
	<b>10-YEAR \$/SF</b> NA

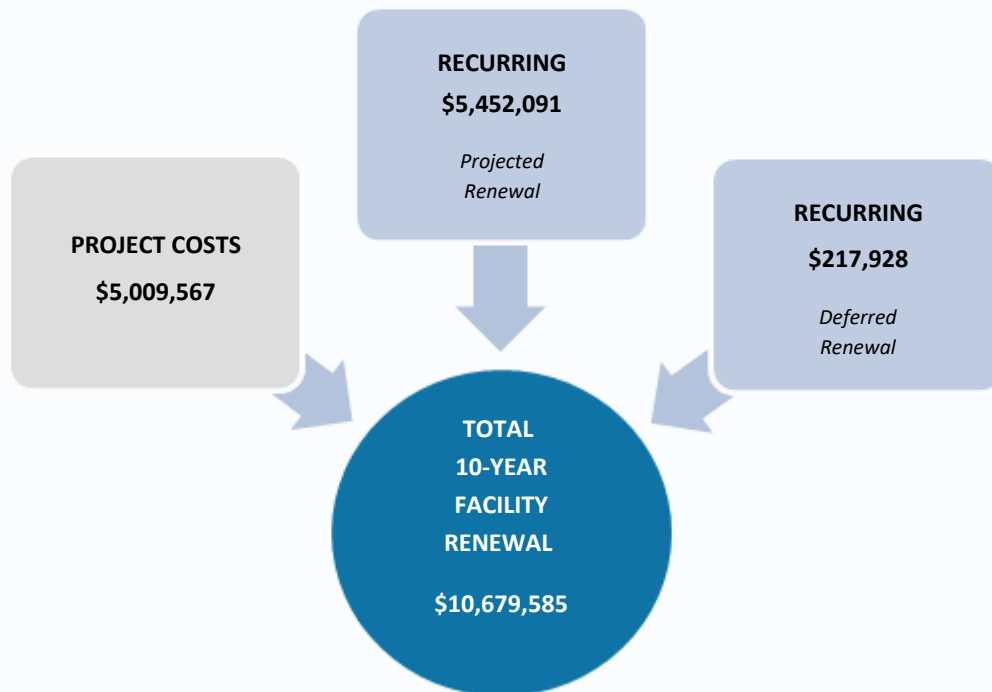
#### FCNI Scale

The FCNI for this asset is **0.24**

- Excellent Condition (typically new construction)
- Below Average Condition (major renovation required)
- Good Condition (maintained within lifecycle)
- Poor Condition (total renovation required)
- Fair Condition (normal renovations required)
- Replacement Indicated (unless historic)



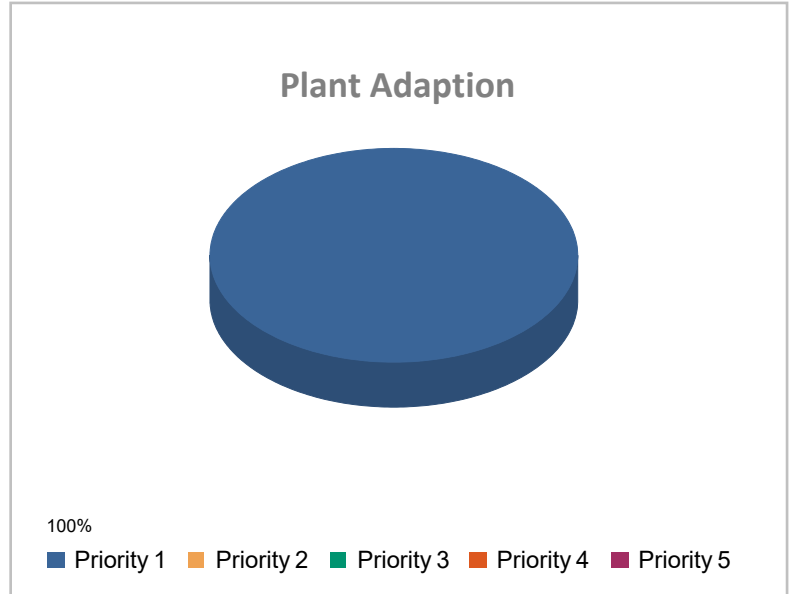
#### Total Facility Renewal Costs



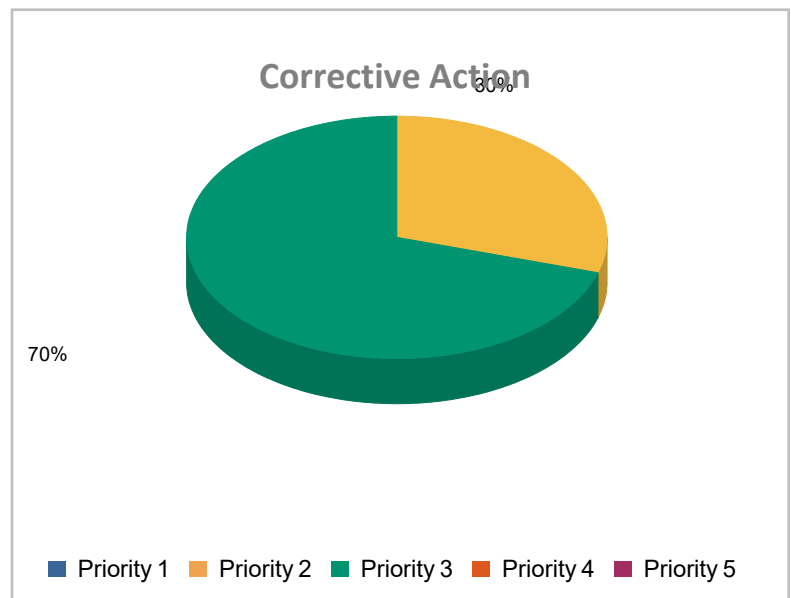
## Project Costs

### Project Cost by Priority

PLANT ADAPTION	
Priority 1	\$4,794,289
Priority 2	\$0
Priority 3	\$0
Priority 4	\$0
Priority 5	\$0



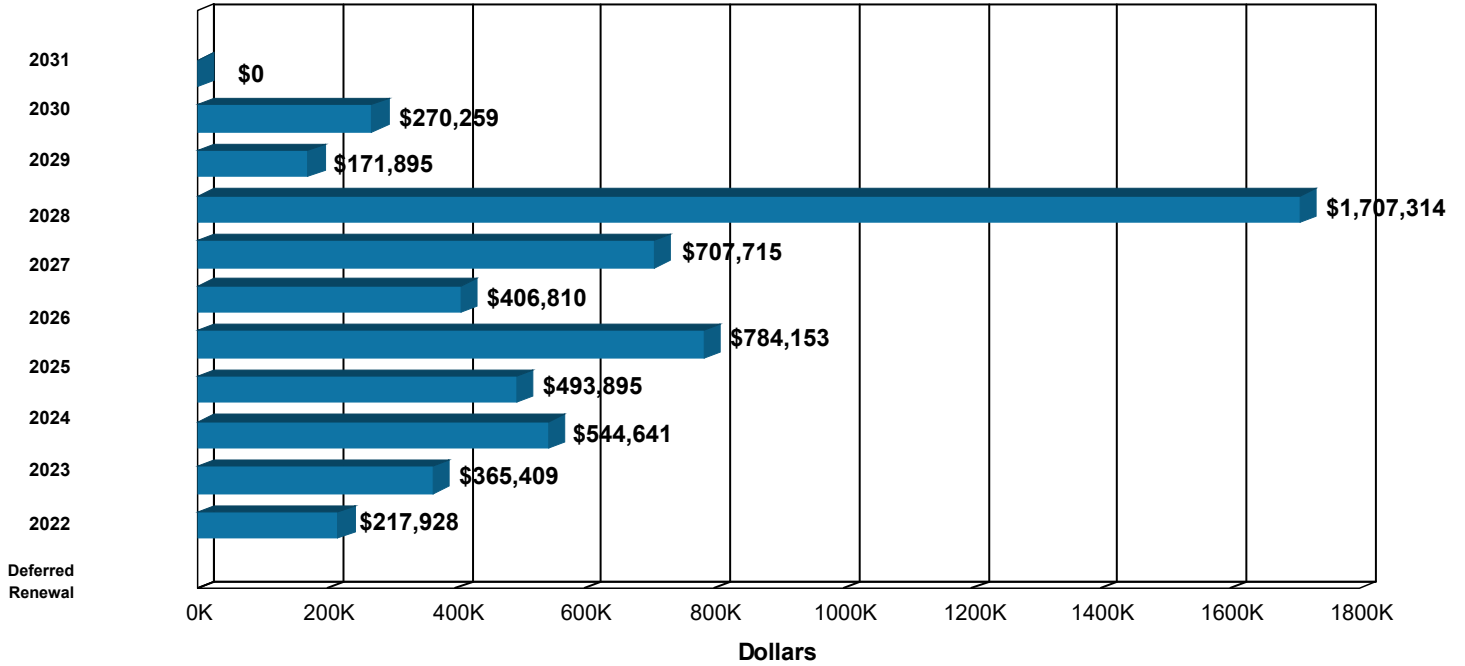
CORRECTIVE ACTION	
Priority 1	\$0
Priority 2	\$63,860
Priority 3	\$151,419
Priority 4	\$0
Priority 5	\$0



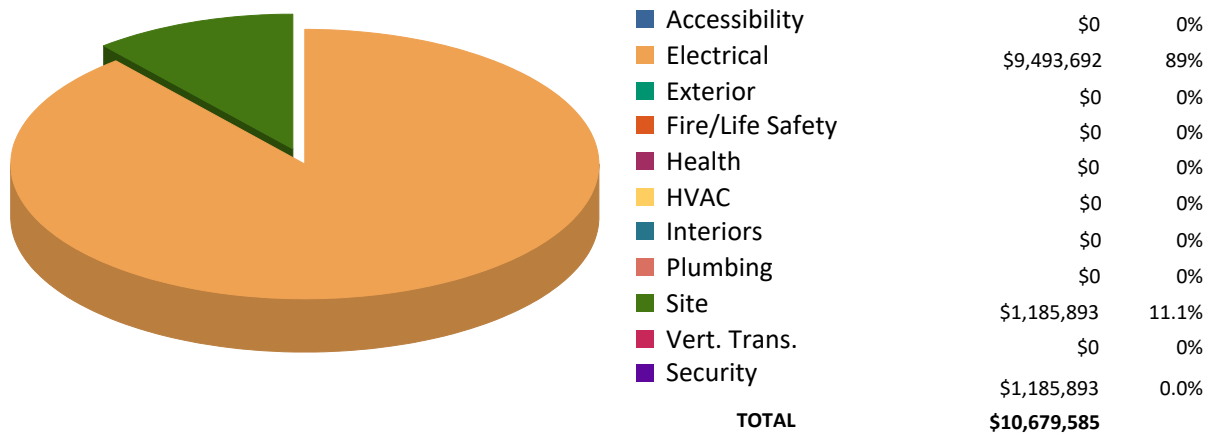


## Recurring Costs

Component Replacement Cost by Year



## Facilities Renewal Cost by System





## ASSET SUMMARY

The East Carolina University main campus is served by an extensive electrical distribution system. Main utility power provided from the city of Greensboro is distributed to two independent sections of switchgear—Switchgear-1 and Switchgear-3. Also installed throughout campus are surface/concrete pad mounted oil-filled transformers, sectionalizing switches, and underground conductor cable installed in electrical duct banks. Utility vaults throughout campus support the underground electrical system.



Image 1: Main electrical system Switchgear-3

The local utility provides main switchgear assemblies 1 and 3 with 13.8 kV power. This is then distributed to the campus by eight independent circuits that originate within the switchgear assembly PODs or load interrupters. The mains for these pods are non-fused and rated for 15 kV and 1,200 amps. The feeder circuits are served by fused load interrupters also rated for 15 kV and 1,200 amps. While this equipment is in proper working condition, both switchgear assemblies will reach the end of their reliable service life within the next ten years and should be considered for replacement.

The POD system, while reliable, is considered a single point of circuit failure if one or more of the load interrupters were to short circuit. It is recommended that new double-ended, metal clad switchgear systems equipped with vacuum circuit breakers replace the current POD system. These switchgear assemblies should be engineered to be installed in a main-tie-main configuration that provides overall system reliability with redundant service feeders. The new equipment should be protected by a digital relaying scheme with real-time reporting, data logging, and remote operating capability. A local battery bank with charger will be required to provide control and monitoring capability in the event of a loss of normal, utility power.

The eight circuits provided from the main switchgear are distributed to approximately 59 local pad-mounted sectionalizing switches. Most of these switches are dead front type equipment with multiple distribution feeder circuits. Modern gas (SF6) switches have been installed in select areas. While most of these switches will operate well beyond the next ten years, it is recommended that 15 be replaced. Twelve of these switches (SS-2, SS-5, SS-9, SS-9B, SS-21, SS-21B, SS-22A, SS-22B, SS-22D, SS-31A, SS-34, SS-203) are considered live-front, meaning that energized components of the switch are exposed to the operator, which is a potential safety hazard. Also, live front switches have been known to fail due to vegetation growth and/or rodent and wildlife infestation. While most of these have reliable service life remaining, they are recommended for replacement with dead front type switches. Switches SS-1, SS-3B, and SS-201 should also be replaced within the next ten years.



Image 2: Live-front sectionalizing switch SS-21

The switches provide electrical service to campus and building transformers. There are approximately 78 medium voltage transformers that are owned and maintained by ECU. This assessment details 68 of them, and the remaining ten (Austin TX-1, Austin TX-2, Bate TX, Brewster TX, Rawl TX, Rivers TX, S&T TX-3, Speight TX, SRC TX, and Whichard TX) are included in the Facility Condition Assessment for the relevant building. Most of the transformers have been well maintained and have remaining service life. Support staff reported no issues. Based on diminishing lifecycle, it is recommended that transformers Erwin TX, Holland Sports Complex TX-3, Mendenhall TX, NRC Field House TX, Old Cafeteria TX, B43/Slay/Umstead TX, and Ward Sports TX be considered for replacement in the next ten years.

The underground distribution system consists of an extensive duct bank system and electrical conductor. This assessment includes nearly 60,000 linear feet of various capacity cable and 35,180 linear feet of duct bank. Interview with support staff indicated that the majority of the cable has been replaced since 2005. There are no additional recommendations for cable replacement.

A significant amount of duct bank is recommended for replacement due to age, condition, and size limitation. A large quantity was constructed with 2-way, 4-inch duct bank with either Orangeburg or PVC conduits. These older sections of duct bank are undersized for their application and presumed to be constructed with asbestos-containing materials. The new campus standard requires the duct bank to be at least 4-way, 6-inch PVC with reinforced concrete. The following duct banks are recommended for replacement:

SWITCHGEAR-1 TO MH-1A	MH-84 TO MH85	MH-105 TO MH-106	MH-54 TO MH-55
SWITCHGEAR-1 TO MH-2A	MH-29 TO MH-30	MH-106 TO MH-107	MH-55 TO MH-56
SWITCHGEAR-1 TO MH-2B	MH-30 TO MH-31	MH-107 TO SS-12W	MH-56 TO MH-57
MH-1 TO MH-2	MH-31 TO MH-32	MH-104 TO MH-104A	MH-57 TO MH-58
MH-2 TO MH-3	MH-32 TO MH-33	MH-72 TO MH-73	MH-38 TO MH-111
MH-3 TO MH-4	MH-33 TO MH-34	MH-73 TO MH-74	MH-111 TO MH-209
MH-4 TO MH-5	MH-34 TO MH-94	MH-74 TO MH-75	MH-111 TO MH-112
MH-5 TO MH-6	MH-94 TO MH-95	MH-75 TO MH-77	MH-38A TO MH-38
MH-6 TO MH-7	MH-95 TO MH-96	MH-28 TO MH-72	MH-53 TO SS-28
MH-7 TO MH-8	MH-96 TO MH-97	MH-20 TO MH-21	MH-49B TO SS-28
MH-8 TO MH-8A	MH-97 TO MH-99	MH-21 TO MH-22	MH-53 TO MH-61
MH-25 TO MH-1	MH-99 TO MH-100	MH-22 TO MH-23	MH-61 TO MH-62
MH-80 TO MH81	MH-100 TO MH-101	MH-23 TO MH-213	MH-62 TO MH-63
MH-81 TO MH82	MH-101 TO MH-102	MH-36 TO MH-36C	MH-63 TO MH-64
MH-82 TO MH83A	MH-102 TO MH-103	MH-36C TO MH-37	MH-64 TO MH-65
MH-83A TO MH83	MH-103 TO MH-104	MH-37 TO MH-38A	MH-65 TO MH-66
MH-83 TO MH84A	MH-104 TO MH-105	MH-53 TO MH-54	MH-115 TO MH-44
MH-84A TO MH84			MH-44 TO MH-45

Table 1: Duct bank recommended for replacement, by section

Additionally, there are multiple areas with duct bank that has been abandoned in place. Normally, this would be an acceptable practice if the abandoned systems were filled with sand or concrete, but it is suspected some of these areas are not sealed. In one area near Austin Building, this abandoned duct bank is in a high traffic area that will eventually see the installation of new underground utilities and telecom. Additional areas recommended for removal or encapsulation include the system abandoned along Berkley Drive to the south of campus and a system south of Greene Hall, Bloxton House, and Erwin Hall.

Nearly 156 underground electrical vaults support the campus electrical distribution system. These concrete vaults were originally constructed to be approximately 4'x4' in size, but the new campus standard requires them to be 6'x9'. It is estimated that nearly 73 of these vaults will require replacement to accommodate the new duct bank to be installed. The following utility vaults are recommended for replacement:

MH-1	MH-111	MH-2A	MH-36	MH-5	MH-58	MH-72	MH-80A	MH-8A
MH-100	MH-115	MH-2B	MH-36C	MH-50	MH-6	MH-72	MH-81	MH-94
MH-101	MH-1A	MH-3	MH-37	MH-52	MH-61	MH-73	MH-82	MH-95
MH-102	MH-2	MH-30	MH-38	MH-53	MH-62	MH-74	MH-83	MH-95
MH-103	MH-213	MH-31	MH-38A	MH-54	MH-63	MH-75	MH-83A	MH-96
MH-104	MH-22	MH-32	MH-4	MH-55	MH-64	MH-77	MH-84	MH-97
MH-105	MH-23	MH-33	MH-44	MH-56	MH-65	MH-8	MH-84A	MH-98
MH-106	MH-25	MH-34	MH-45	MH-57	MH-7	MH-80	MH-85	MH-99
MH-107								

Table 2: Electrical utility vaults recommended for rehabilitation

Note: The renewal needs outlined in this report were identified from the visual inspection and staff interviews. Our professional architectural and engineering inspectors examined the accessible equipment and various components to determine what repairs or modifications may be necessary to restore the systems and asset to an acceptable condition, or to a level defined by the Client. The estimated costs represent correction of existing deficiencies and anticipated lifecycle failures within a ten-year period. These recommendations are to bring the system to modern standards. The total costs include variable project delivery costs as determined by the Owner and do not represent the cost of a complete renovation. Soft costs are not represented in this report, nor are costs that could not be identified or determined from the visual inspection and available information.

## INSPECTION TEAM DATA

### Report Development

ISES Corporation  
3100 Breckinridge Boulevard, Suite 400  
Duluth, GA 30096

### Project Manager

Rob Camperlino  
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Robc@isescorp.com

### Date of Inspection

March 24, 2022

### Inspection Team Personnel

NAME	POSITION	SPECIALTY
Rob Camperlino	Facility Assessor	Mechanical, Electrical, Plumbing, Energy, Fire/Life Safety, Health
Carl Mason, PE, BSCP, M.ASCE	Senior Project Engineer	Mechanical, Electrical, Plumbing, Energy, Fire/Life Safety, Health

### Client Contact

NAME	POSITION
Griffin L. Avin, CEFP	Director of Facilities Services, Health Services Campus

## DEFINITIONS

The following information is a clarification of the Utilities Infrastructure Condition Assessment report using example definitions.

### Overview

#### Recurring and Nonrecurring Renewal Costs

Renewal costs are divided into two main categories – recurring and nonrecurring. Recurring costs are cyclical and consist primarily of major repairs to or replacement/rebuilding of systems and components. The tool for projecting the recurring renewal costs is the Renewable Component Inventory, which is explained in detail below. Nonrecurring costs typically consist of modifications or repairs necessary to comply with code requirements or to address isolated, nonrecurring deficiencies that could negatively affect the systems and components within. For these nonrecurring costs, projects have been developed and include estimated material and labor costs.

#### Material and Labor Cost Factors and Additional Markups

The project costs are adjusted from the national averages to reflect conditions in Greenville using the R. S. Means City Cost Index for material and labor cost factors. The percentage adjustment of the national average is shown in the table below. Also included in the renewal costs are the construction markup (general contractor profit and overhead, construction management, permitting, accounting, site security, insurance, bonds, sales tax, institutional fees, site utilities, refuse fees, and insurance) and professional fees (architect or engineer design fees and in-house design costs).

GLOBAL MARKUP	%
Local Labor Index	71.7
Local Materials Index	100.7
Construction Markup	20.0
Professional Fees	16.0

### Recurring Costs

#### Renewable Component Inventory and Cost Projections

The Renewable Component Inventory (starting on page 4.1.1) is based on industry standard lifecycle expectancies applied to an inventory of major systems and components. Each indicated component has the following associated information:



CATEGORY	DESCRIPTION
Component Code	A four-digit code assigned by AMS to the component
Component Description	Description of the individual component
Identifier	Identifying information can be entered as necessary
Customer ID	Customer-provided equipment ID number
Location	The location of each component can be entered if applicable.
Quantity	The quantity of the listed component
Units	The unit of measure associated with the quantity
Complexity Factor	Adjusts the component replacement costs when it is anticipated that the actual cost will deviate from the average for that component
Total Cost	The unit cost multiplied by quantity, in today's dollars (note that this is a one-time renewal/replacement cost)
Install Date	This is the year that the component was or is estimated to have been installed. When this data is not available, the default is the year the asset was constructed.
Useful Life	Average life expectancy of the component
Useful Life Adjustment	An optional adjustment that lengthens or reduces the first lifecycle of the component
Replacement Year	Expresses when the next replacement should occur and is the sum of the install date, useful life, and any useful life adjustment

The component listing forms the basis of the Recurring Costs by Year report, which provides a year-by-year list of projected recurring renewal costs (in future year dollars) over the next ten years. Each individual component is assigned a replacement year based on lifecycles. For items already past the end of their lifecycle, the replacement year is shown as Deferred Renewal.

For a longer term perspective, the Recurring Component Expenditure Projections Graph presents recurring renewal cost projections over a 50-year period (starting from the date the report is run) based on each individual item's renewal cost and life span. Some components might require renewal several times within the 50-year model, while others might not occur at all. The vertical bars on the graph represent the accumulated total costs for each individual year. The average annual cost per gross square foot (\$/GSF) is shown at the bottom of the graph. In this calculation, costs are not escalated. This figure can be utilized to assess the adequacy of existing capital renewal and repair budgets.

### Recurring Cost Classifications

- Deferred Renewal**  
 Recurring repairs, generated by the Renewable Component Inventory, that are past due for completion but have not yet been accomplished as part of normal maintenance or capital repair efforts. Further deferral of such renewal could impair the proper functioning of the system. Costs estimated for Deferred Renewal projects should include compliance with applicable codes, even if such compliance requires expenditures beyond those essential to effect the needed repairs.

- **Projected Renewal**  
Recurring renewal efforts, generated by the Renewable Component Inventory, that will be due within the scope of the assessment. These are regular or normal maintenance, repair, or renovation efforts that should be planned in the near future.

## Nonrecurring Costs

As previously mentioned, modifications or repairs necessary to comply with code requirements and those that address isolated, nonrecurring deficiencies that could negatively affect the systems and components within are not included in the Renewable Component Inventory. For each such deficiency identified during the facility inspection, a project with an estimated cost to rectify said deficiency is recommended. These projects each have a unique identifier and are categorized by system type, priority, and classification, which are defined below. The costs in these projects are also indexed to local conditions and markups applied as the situation dictates.

### Project Number

Each project has a unique number consisting of three elements, the asset identification number, system code, and a sequential number assigned by the FCA software. For example, the third fire/life safety project identified for asset 0001 would have a project number of 0001FS03 (0001 for the asset number, FS for fire/life safety, and 03 being the next sequential number for a fire/life safety project).

### Project Classifications

- **Plant Adaption**  
Nonrecurring expenditures, stored in the Projects module, required to adapt the physical plant to the evolving needs of the institution and to changing codes or standards. These are expenditures beyond normal maintenance. Examples include compliance with changing and improvements occasioned by the adoption of modern technology.
- **Corrective Action**  
Nonrecurring expenditures, stored in the Projects module, for repairs needed to correct random and unpredictable deficiencies. Such projects are not related to aligning a building with codes or standards. Deficiencies classified as Corrective Action could have an effect on building aesthetics, safety, or usability.

### Priority Classes

Recurring renewal needs do not receive individual prioritization, as the entire data set of needs in this category is year-based. Each separate component has a distinct need year, rendering further prioritization unnecessary. Each nonrecurring renewal project, however, has a priority assigned to

indicate the criticality of the recommended work. The prioritization utilized for this subset of the data is as follows.

- **Priority 1 – High**

Items in this category include:

- a. correcting a cited safety hazard
- b. stopping accelerated deterioration
- c. returning a facility to normal operation

- **Priority 2 – Medium**

Items in this category include:

- a. repairs to prevent further deterioration
- b. improvements to facility approach/entry and access to goods and services (DOJ ADA title III, priorities 1 and 2)
- c. correction of potential safety hazards

- **Priority 3 – Low**

Items in this category include:

- a. improving access to restrooms and other amenities (DOJ ADA title III, priorities 3 and 4)
- b. bringing a facility into compliance with current building codes as grandfather clauses expire
- c. increasing usability following an occupancy or use change
- d. actions that are recommended but not required by code

## Project Subclass

Subclass ratings are assigned to accessibility upgrade activities based on the four Department of Justice priority rankings recommended by the Title III regulations for planning readily achievable barrier removal projects. These ratings are:

- DOJ1 Accessible approach and entrance
- DOJ2 Access to goods and services
- DOJ3 Access to restrooms
- DOJ4 Any other necessary measures

## Category Codes

CATEGORY CODE	SYSTEM DESCRIPTION
AC1A – AC4B	ACCESSIBILITY
EL1A – EL8A	ELECTRICAL
ES1A – ES6E	EXTERIOR STRUCTURE
FS1A – FS6A	FIRE/LIFE SAFETY
HE1A – HE7A	HEALTH
HV1A – HV8B	HVAC
IS1A – IS6D	INTERIOR FINISHES/SYSTEMS
PL1A – PL5A	PLUMBING
SI1A – SI4A	SITE
VT1A – VT7A	VERTICAL TRANSPORTATION

<i>Example:</i> Category Code = EL5A	
<b>EL</b>	System Description
<b>5</b>	Component Description
<b>A</b>	Element Description

## Priority Sequence

A Priority Sequence number is automatically assigned to each project to rank the projects in order of relative criticality and show the recommended execution order. This number is calculated based on the Priority Class and identified system of each project.

<i>Example</i>			
Priority Class	Category Code	Project Number	Priority Sequence
1	HV2C	0001HV04	01
1	PL1D	0001PL02	02
2	IS1E	0001IS06	03
2	EL4C	0001EL03	04

## Photographs

A code shown on the Photo Log identifies the asset number, photo sequence, and a letter designation for architect (a) or engineer (e).

<i>Example:</i> Photo Number: 0001006e	
<b>0001</b>	Asset Number
<b>006</b>	Photo Sequence
<b>e</b>	Engineering Photo

# Section 2



**RENEWAL NEEDS MATRIX**

*All dollars shown as Present Value*

CATEGORY	NONRECURRING PROJECT NEEDS			RECURRING COMPONENT REPLACEMENT NEEDS											
	Immediate	Critical	Noncritical	Deferred Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
ACCESSIBILITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
EXTERIOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
INTERIOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
PLUMBING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
HVAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
FIRE/LIFE SAFETY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
ELECTRICAL	4,794,289	63,860	151,419	217,928	365,409	411,499	293,873	566,791	256,329	490,353	1,489,951	171,895	220,099	0	\$9,493,692
SITE	0	0	0	0	0	133,142	200,023	217,362	150,481	217,362	217,362	0	50,160	0	\$1,185,893
VERT. TRANS.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
HEALTH/EQUIP.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>SUBTOTAL</b>	<b>\$4,794,289</b>	<b>\$63,860</b>	<b>\$151,419</b>	<b>\$217,928</b>	<b>\$365,409</b>	<b>\$544,641</b>	<b>\$493,895</b>	<b>\$784,153</b>	<b>\$406,810</b>	<b>\$707,715</b>	<b>\$1,707,314</b>	<b>\$171,895</b>	<b>\$270,259</b>	<b>\$0</b>	<b>\$10,679,585</b>
<b>TOTAL NONRECURRING PROJECT NEEDS</b>			<b>\$5,009,567</b>	<b>TOTAL RECURRING COMPONENT REPLACEMENT NEEDS</b>										<b>\$5,670,019</b>	

<b>CURRENT REPLACEMENT VALUE</b>	<b>\$43,809,400</b>
<b>FACILITY CONDITION NEEDS INDEX</b>	<b>0.24</b>
<b>FACILITY CONDITION INDEX</b>	<b>0.00</b>

<b>GSF</b>	<b>TOTAL 10-YEAR FACILITY RENEWAL NEEDS</b>	<b>10-YEAR NEEDS/SF</b>
<b>NA</b>	<b>\$10,679,585</b>	<b>NA</b>

### RENEWAL NEEDS BY SYSTEM

*All costs shown as Present Value*

CATEGORY	NONRECURRING PROJECT COSTS	RECURRING COMPONENT REPLACEMENT COSTS	TOTAL 10-YEAR FACILITY RENEWAL COSTS
ACCESSIBILITY	\$0	\$0	\$0
EXTERIOR	\$0	\$0	\$0
INTERIOR	\$0	\$0	\$0
PLUMBING	\$0	\$0	\$0
HVAC	\$0	\$0	\$0
FIRE/LIFE SAFETY	\$0	\$0	\$0
ELECTRICAL	\$5,009,567	\$4,484,126	\$9,493,692
SITE	\$0	\$1,185,893	\$1,185,893
VERT. TRANS	\$0	\$0	\$0
HEALTH	\$0	\$0	\$0
<b>TOTALS</b>	<b>\$5,009,567</b>	<b>\$5,670,019</b>	<b>\$10,679,585</b>



**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-21		MINGES SVC YARD	D5010	Deferred Renewal	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-5		SE OF FLETCHER MUSIC	D5010	Deferred Renewal	86,879
MELEC TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	ERWIN TX		ERWIN EXTERIOR	D5010	Deferred Renewal	44,170
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-22A		W OF SCOTT ON COLLEGE HILL	D5010	2022	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-22B		W OF SCOTT ON COLLEGE HILL	D5010	2022	86,879
MELEC TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	OLD CAFETERIA TX		W OF OLD CAF	D5010	2022	78,297
MELEC TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	NRC FIELD HOUSE TX		W OF FIELD HOUSE	D5010	2022	113,354
MELEC ED35	DUCT BANK	MH-73 TO MH-74		SITE	D5010	2023	7,665
MELEC ED35	DUCT BANK	MH-72 TO MH-73		SITE	D5010	2023	10,453
MELEC ED35	DUCT BANK	MH-22 TO MH-23		SITE	D5010	2023	11,614
MELEC ED35	DUCT BANK	MH-74 TO MH-75		SITE	D5010	2023	13,472
MELEC ED35	DUCT BANK	MH-75 TO MH-77		SITE	D5010	2023	16,144
MELEC ED35	DUCT BANK	MH-23 TO MH-213		SITE	D5010	2023	21,021
MELEC ED35	DUCT BANK	MH-28 TO MH-72		SITE	D5010	2023	23,228
MELEC ED35	DUCT BANK	MH-20 TO MH-21		SITE	D5010	2023	24,273
MELEC ED35	DUCT BANK	MH-21 TO MH-22		SITE	D5010	2023	24,854

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-1		NRC MAIN GATE	D5010	2023	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-22D		W OF SCOTT ON COLLEGE HILL	D5010	2023	86,879
MELEC TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	WARD SPORTS TX		S OF WARD	D5010	2023	85,015
MELEC UT02	UTILITY MANHOLE	MH-72		SITE	G9010	2023	12,385
MELEC UT02	UTILITY MANHOLE	MH-213		SITE	G9010	2023	12,385
MELEC UT02	UTILITY MANHOLE	MH-22		SITE	G9010	2023	12,385
MELEC UT02	UTILITY MANHOLE	MH-23		SITE	G9010	2023	12,385
MELEC UT02	UTILITY MANHOLE	MH-72		SITE	G9010	2023	16,720
MELEC UT02	UTILITY MANHOLE	MH-73		SITE	G9010	2023	16,720
MELEC UT02	UTILITY MANHOLE	MH-74		SITE	G9010	2023	16,720
MELEC UT02	UTILITY MANHOLE	MH-75		SITE	G9010	2023	16,720
MELEC UT02	UTILITY MANHOLE	MH-77		SITE	G9010	2023	16,720
MELEC ED35	DUCT BANK	MH-84 TO MH85		SITE	D5010	2024	27,293
MELEC ED35	DUCT BANK	MH-80 TO MH81		SITE	D5010	2024	28,338
MELEC ED35	DUCT BANK	MH-81 TO MH82		SITE	D5010	2024	24,273
MELEC ED35	DUCT BANK	MH-83 TO MH84A		SITE	D5010	2024	24,970
MELEC ED35	DUCT BANK	MH-111 TO MH-209		SITE	D5010	2024	15,447

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC ED35	DUCT BANK	MH-37 TO MH-38A		SITE	D5010	2024	18,931
MELEC ED35	DUCT BANK	MH-36 TO MH-36C		SITE	D5010	2024	19,163
MELEC ED35	DUCT BANK	MH-36C TO MH-37		SITE	D5010	2024	19,163
MELEC ED35	DUCT BANK	MH-111 TO MH-112		SITE	D5010	2024	20,325
MELEC ED35	DUCT BANK	MH-38 TO MH-111		SITE	D5010	2024	4,762
MELEC ED35	DUCT BANK	MH-38A TO MH-38		SITE	D5010	2024	5,807
MELEC ED35	DUCT BANK	MH-83A TO MH83		SITE	D5010	2024	1,161
MELEC ED35	DUCT BANK	MH-84A TO MH84		SITE	D5010	2024	1,858
MELEC ED35	DUCT BANK	MH-82 TO MH83A		SITE	D5010	2024	38,210
MELEC TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	HOLLAND SPORTS COMPLEX TX-3		W OF WHITE LOT	D5010	2024	44,170
MELEC UT02	UTILITY MANHOLE	MH-85		SITE	G9010	2024	12,385
MELEC UT02	UTILITY MANHOLE	MH-38A		SITE	G9010	2024	12,385
MELEC UT02	UTILITY MANHOLE	MH-37		SITE	G9010	2024	12,385
MELEC UT02	UTILITY MANHOLE	MH-38		SITE	G9010	2024	12,385
MELEC UT02	UTILITY MANHOLE	MH-81		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-82		SITE	G9010	2024	16,720

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC UT02	UTILITY MANHOLE	MH-83		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-84		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-83A		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-84A		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-36		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-36C		SITE	G9010	2024	16,720
MELEC UT02	UTILITY MANHOLE	MH-111		SITE	G9010	2024	16,720
MELEC ED35	DUCT BANK	MH-5 TO MH-6		SITE	D5010	2025	31,474
MELEC ED35	DUCT BANK	MH-1 TO MH-2		SITE	D5010	2025	5,807
MELEC ED35	DUCT BANK	MH-2 TO MH-3		SITE	D5010	2025	8,711
MELEC ED35	DUCT BANK	MH-8 TO MH-8A		SITE	D5010	2025	11,730
MELEC ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2A		SITE	D5010	2025	11,266
MELEC ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2B		SITE	D5010	2025	10,685
MELEC ED35	DUCT BANK	SWITCHGEAR-1 TO MH-1A		SITE	D5010	2025	10,104
MELEC ED35	DUCT BANK	MH-7 TO MH-8		SITE	D5010	2025	23,809
MELEC ED35	DUCT BANK	MH-6 TO MH-7		SITE	D5010	2025	23,460
MELEC ED35	DUCT BANK	MH-4 TO MH-5		SITE	D5010	2025	29,500

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC ED35	DUCT BANK	MH-3 TO MH-4		SITE	D5010	2025	27,874
MELEC ED35	DUCT BANK	MH-25 TO MH-1		SITE	D5010	2025	24,854
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-9B		NW OF S&T COOLING TWR	D5010	2025	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-21B		MINGES CHILLER YARD	D5010	2025	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-2		THSC SERVICE YARD	D5010	2025	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-9		NW OF S&T COOLING TWR	D5010	2025	86,879
MELEC UT02	UTILITY MANHOLE	MH-25		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-1		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-1A		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-2		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-2A		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-2B		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-3		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-4		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-5		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-6		SITE	G9010	2025	16,720

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC UT02	UTILITY MANHOLE	MH-7		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-8		SITE	G9010	2025	16,720
MELEC UT02	UTILITY MANHOLE	MH-8A		SITE	G9010	2025	16,720
MELEC ED35	DUCT BANK	MH-94 TO MH-95		SITE	D5010	2026	24,854
MELEC ED35	DUCT BANK	MH-29 TO MH-30		SITE	D5010	2026	26,945
MELEC ED35	DUCT BANK	MH-33 TO MH-34		SITE	D5010	2026	23,228
MELEC ED35	DUCT BANK	MH-30 TO MH-31		SITE	D5010	2026	24,273
MELEC ED35	DUCT BANK	MH-31 TO MH-32		SITE	D5010	2026	13,124
MELEC ED35	DUCT BANK	MH-32 TO MH-33		SITE	D5010	2026	15,795
MELEC ED35	DUCT BANK	MH-34 TO MH-94		SITE	D5010	2026	41,230
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-201		SE OF SRC	D5010	2026	86,879
MELEC UT02	UTILITY MANHOLE	MH-30		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-31		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-32		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-80		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-80A		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-33		SITE	G9010	2026	16,720

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC UT02	UTILITY MANHOLE	MH-34		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-94		SITE	G9010	2026	16,720
MELEC UT02	UTILITY MANHOLE	MH-95		SITE	G9010	2026	16,720
MELEC ED35	DUCT BANK	MH-99 TO MH-100		SITE	D5010	2027	37,746
MELEC ED35	DUCT BANK	MH-97 TO MH-99		SITE	D5010	2027	41,578
MELEC ED35	DUCT BANK	MH-100 TO MH-101		SITE	D5010	2027	36,584
MELEC ED35	DUCT BANK	MH-101 TO MH-102		SITE	D5010	2027	37,049
MELEC ED35	DUCT BANK	MH-103 TO MH-104		SITE	D5010	2027	32,868
MELEC ED35	DUCT BANK	MH-102 TO MH-103		SITE	D5010	2027	33,681
MELEC ED35	DUCT BANK	MH-105 TO MH-106		SITE	D5010	2027	34,029
MELEC ED35	DUCT BANK	MH-104 TO MH-105		SITE	D5010	2027	34,842
MELEC ED35	DUCT BANK	MH-107 TO SS-12W		SITE	D5010	2027	20,325
MELEC ED35	DUCT BANK	MH-104 TO MH-104A		SITE	D5010	2027	3,368
MELEC ED35	DUCT BANK	MH-96 TO MH-97		SITE	D5010	2027	29,500
MELEC ED35	DUCT BANK	MH-106 TO MH-107		SITE	D5010	2027	30,893

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC ED35	DUCT BANK	MH-95 TO MH-96		SITE	D5010	2027	31,010
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-3B		N OF FICKLEN	D5010	2027	86,879
MELEC UT02	UTILITY MANHOLE	MH-95		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-96		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-97		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-98		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-99		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-100		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-101		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-102		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-103		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-104		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-105		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-106		SITE	G9010	2027	16,720
MELEC UT02	UTILITY MANHOLE	MH-107		SITE	G9010	2027	16,720
MELEC ED35	DUCT BANK	MH-53 TO MH-61		SITE	D5010	2028	23,344
MELEC ED35	DUCT BANK	MH-57 TO MH-58		SITE	D5010	2028	23,460



**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC ED35	DUCT BANK	MH-55 TO MH-56		SITE	D5010	2028	24,506
MELEC ED35	DUCT BANK	MH-53 TO SS-28		SITE	D5010	2028	24,622
MELEC ED35	DUCT BANK	MH-65 TO MH-66		SITE	D5010	2028	21,370
MELEC ED35	DUCT BANK	MH-56 TO MH-57		SITE	D5010	2028	21,370
MELEC ED35	DUCT BANK	MH-54 TO MH-55		SITE	D5010	2028	21,254
MELEC ED35	DUCT BANK	MH-49B TO SS-28		SITE	D5010	2028	5,807
MELEC ED35	DUCT BANK	MH-64 TO MH-65		SITE	D5010	2028	18,931
MELEC ED35	DUCT BANK	MH-63 TO MH-64		SITE	D5010	2028	17,073
MELEC ED35	DUCT BANK	MH-62 TO MH-63		SITE	D5010	2028	15,911
MELEC ED35	DUCT BANK	MH-61 TO MH-62		SITE	D5010	2028	15,679
MELEC ED35	DUCT BANK	MH-53 TO MH-54		SITE	D5010	2028	35,888
MELEC SG35	LOAD INTERUPTER SWITCH - 15 KV	SWITCHGEAR-1 POD-1		FICKLEN DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERUPTER SWITCH - 15 KV	SWITCHGEAR-1 POD-6		FICKLEN DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-1		LIBRARY DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-2		LIBRARY DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-3		LIBRARY DRIVE	D5010	2028	78,799

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-4		LIBRARY DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-5		LIBRARY DRIVE	D5010	2028	78,799
MELEC SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-6		LIBRARY DRIVE	D5010	2028	78,799
MELEC SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-2		FICKLEN DRIVE	D5010	2028	108,841
MELEC SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-3		FICKLEN DRIVE	D5010	2028	108,841
MELEC SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-4		FICKLEN DRIVE	D5010	2028	108,841
MELEC SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-5		FICKLEN DRIVE	D5010	2028	108,841
MELEC TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	MENDENHALL TX		S OF MENDENHALL	D5010	2028	154,981
MELEC UT02	UTILITY MANHOLE	MH-52		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-50		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-61		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-62		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-63		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-64		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-65		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-53		SITE	G9010	2028	16,720

**FACILITIES RENEWAL PLAN**  
 RECURRING COMPONENT REPLACEMENT COSTS

*All costs shown as Present Value*

ASSET CODE COMP CODE	COMPONENT	IDENTIFIER	CUSTOMER ID	LOCATION	UNI- FORMAT	REPLACEMENT YEAR	REPLACEMENT COST
MELEC UT02	UTILITY MANHOLE	MH-54		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-55		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-56		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-57		SITE	G9010	2028	16,720
MELEC UT02	UTILITY MANHOLE	MH-58		SITE	G9010	2028	16,720
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-31A		S OF JOYNER CLOCK TWR	D5010	2029	86,879
MELEC TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	SLAY/UMSTEAD/B 43 TX		SVC YARD N OF UMSTEAD	D5010	2029	85,015
MELEC ED35	DUCT BANK	MH-44 TO MH-45		SITE	D5010	2030	23,693
MELEC ED35	DUCT BANK	MH-115 TO MH-44		SITE	D5010	2030	22,647
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-34		W OF CHRISTENBURY	D5010	2030	86,879
MELEC SG30	PAD-MOUNT SWITCH - 15 KV	SS-203		SW OF JENKINS ART	D5010	2030	86,879
MELEC UT02	UTILITY MANHOLE	MH-115		SITE	G9010	2030	16,720
MELEC UT02	UTILITY MANHOLE	MH-44		SITE	G9010	2030	16,720
MELEC UT02	UTILITY MANHOLE	MH-45		SITE	G9010	2030	16,720
<b>TOTAL</b>							<b>\$5,670,019</b>

**FACILITIES RENEWAL PLAN**  
NONRECURRING PROJECT COSTS

*All costs shown as Present Value*

PROJECT NUMBER	PROJECT TITLE	UNI-FORMAT	PRIORITY CLASS	PROJECT CLASSIFICATION	PROJECT COST
MELECELO4	INSTALL DOUBLE-ENDED SWITCHGEAR WITH BREAKERS	G4010	1	Plant Adaption	4,794,289
MELECELO1	REMOVE ABANDONED DUCT BANK NEAR AUSTIN BLDG	G4010	2	Corrective Action	63,860
MELECELO2	REMOVE ABANDONED DUCT BANK S OF BLOXTON, GREENE & ERWIN	G4010	3	Corrective Action	27,468
MELECELO3	REMOVE ABANDONED DUCT BANK - SOUTHEAST CAMPUS	G4010	3	Corrective Action	123,951
<b>TOTAL</b>					<b>\$5,009,567</b>

# Section 3

All costs shown as Present Value

INSTALL DOUBLE-ENDED SWITCHGEAR WITH BREAKERS			
<b>Project Number:</b>	MELECELO4	<b>Category Code:</b>	
<b>Priority Sequence:</b>	1	EL7D	
<b>Priority Class:</b>	High	<b>System:</b>	ELECTRICAL
<b>Project Class:</b>	Plant Adaption	<b>Component:</b>	INFRASTRUCTURE
<b>Date Basis:</b>	7/12/2022	<b>Element:</b>	DISTRIBUTION SWITCHGEAR

Code Application:	Subclass/Savings:	Project Location:
Not Applicable	Not Applicable	Item Only: Floor(s) S

**Description**

The electrical distribution system main circuit is served by single cabinet load interrupters identified as PODs that are antiquated for their application. These are a single point of failure and a new, more modern, double-ended system would provide redundancy. It is recommended that the main switchgear 1 and 3 be replaced with metal clad switchgear assemblies equipped with a vacuum circuit breaker in a main-tie-main configuration. The main, tie, and feeder circuits should be equipped with digital relays and monitoring systems and be interconnected to the campus SCADA system. A battery bank and associated charger should be installed to provide loss of normal power control capabilities.

All costs shown as Present Value

**Project Cost Estimate**

Task Description	Unit	Qty	Material Unit Cost	Total Material Cost	Labor Unit Cost	Total Labor Cost	Total Cost
Install metal clad switchgear cabinets	EA	26	\$16,912	\$439,700	\$3,416	\$88,824	\$528,524
Install vacuum circuit breaker - 5,000 amps	EA	6	\$87,500	\$525,000	\$22,130	\$132,780	\$657,780
Install vacuum circuit breaker - 3,000 amps	EA	16	\$52,853	\$845,648	\$16,870	\$269,920	\$1,115,568
Install metering and relays	EA	24	\$24,940	\$598,560	\$6,300	\$151,200	\$749,760
Concrete slab for switchgear	SF	1,600	\$11.68	\$18,688	\$14.29	\$22,864	\$41,552
Install new conductor	EA	22	\$4,162	\$91,559	\$1,395	\$30,696	\$122,255
Install battery bank and charger	EA	2	\$11,518	\$23,037	\$2,349	\$4,697	\$27,734
Install new PTs and CTs	EA	4	\$26,500	\$106,000	\$6,500	\$26,000	\$132,000
Metal enclosed structure with secondary electrical, HVAC, IT and telecom	EA	2	\$107,500	\$215,000	\$29,875	\$59,750	\$274,750
<b>Base Material/Labor Costs</b>				<b>\$2,863,191</b>		<b>\$786,731</b>	
<b>Indexed Material/Labor Costs</b>				<b>\$2,883,233</b>		<b>\$560,939</b>	<b>\$3,444,173</b>
<b>Construction Mark Up at 20.0%</b>							<b>\$688,835</b>
<b>Original Construction Cost</b>							<b>\$4,133,007</b>
<b>Date of Original Estimate:</b>	7/12/2022					<b>Inflation</b>	<b>\$0</b>
<b>Current Year Construction Cost</b>							<b>\$4,133,007</b>
<b>Professional Fees at 16.0%</b>							<b>\$661,281</b>
<b>TOTAL PROJECT COST</b>							<b>\$4,794,289</b>

All costs shown as Present Value

REMOVE ABANDONED DUCT BANK NEAR AUSTIN BLDG			
<b>Project Number:</b>	MELECELO1	<b>Category Code:</b>	
<b>Priority Sequence:</b>	2	EL7B	
<b>Priority Class:</b>	Medium	<b>System:</b>	ELECTRICAL
<b>Project Class:</b>	Corrective Action	<b>Component:</b>	INFRASTRUCTURE
<b>Date Basis:</b>	7/13/2022	<b>Element:</b>	UNDERGROUND TRANSMISSION

Code Application:	Subclass/Savings:	Project Location:
Not Applicable	Not Applicable	Area Wide: Floor(s) S

**Description**

The area near Austin and Speight Buildings has abandoned electrical duct bank that is recommended for removal.



All costs shown as Present Value

**Project Cost Estimate**

Task Description	Unit	Qty	Material Unit Cost	Total Material Cost	Labor Unit Cost	Total Labor Cost	Total Cost
Remove ductbank	LF	1,288	\$12.00	\$15,456	\$41.00	\$52,808	\$68,264
<b>Base Material/Labor Costs</b>				<b>\$15,456</b>		<b>\$52,808</b>	
<b>Indexed Material/Labor Costs</b>				<b>\$15,564</b>		<b>\$37,652</b>	<b>\$53,216</b>
<b>Construction Mark Up at 20.0%</b>							<b>\$10,643</b>
<b>Original Construction Cost</b>							<b>\$63,860</b>
<b>Date of Original Estimate:</b>	7/13/2022					<b>Inflation</b>	<b>\$0</b>
<b>Current Year Construction Cost</b>							<b>\$63,860</b>
<b>No Professional Fees Required</b>							<b>\$0</b>
<b>TOTAL PROJECT COST</b>							<b>\$63,860</b>

All costs shown as Present Value

REMOVE ABANDONED DUCT BANK S OF BLOXTON, GREENE & ERWIN			
<b>Project Number:</b>	MELECELO2	<b>Category Code:</b>	
<b>Priority Sequence:</b>	3	EL7B	
<b>Priority Class:</b>	Low	<b>System:</b>	ELECTRICAL
<b>Project Class:</b>	Corrective Action	<b>Component:</b>	INFRASTRUCTURE
<b>Date Basis:</b>	7/19/2022	<b>Element:</b>	UNDERGROUND TRANSMISSION

**Code Application:**

Not Applicable

**Subclass/Savings:**

Not Applicable

**Project Location:**

Area Wide: Floor(s) S

**Description**

The area near Greene Hall, Bloxton House, and Erwin Hall has abandoned electrical duct bank that is recommended for removal.

All costs shown as Present Value

**Project Cost Estimate**

Task Description	Unit	Qty	Material Unit Cost	Total Material Cost	Labor Unit Cost	Total Labor Cost	Total Cost
Remove ductbank	LF	554	\$12.00	\$6,648	\$41.00	\$22,714	\$29,362
<b>Base Material/Labor Costs</b>				<b>\$6,648</b>		<b>\$22,714</b>	
<b>Indexed Material/Labor Costs</b>				<b>\$6,695</b>		<b>\$16,195</b>	<b>\$22,890</b>
<b>Construction Mark Up at 20.0%</b>							<b>\$4,578</b>
<b>Original Construction Cost</b>							<b>\$27,468</b>
<b>Date of Original Estimate:</b>	7/19/2022					<b>Inflation</b>	<b>\$0</b>
<b>Current Year Construction Cost</b>							<b>\$27,468</b>
<b>No Professional Fees Required</b>							<b>\$0</b>
<b>TOTAL PROJECT COST</b>							<b>\$27,468</b>

All costs shown as Present Value

REMOVE ABANDONED DUCT BANK - SOUTHEAST CAMPUS			
<b>Project Number:</b>	MELECELO3	<b>Category Code:</b>	
<b>Priority Sequence:</b>	4	EL7B	
<b>Priority Class:</b>	Low	<b>System:</b>	ELECTRICAL
<b>Project Class:</b>	Corrective Action	<b>Component:</b>	INFRASTRUCTURE
<b>Date Basis:</b>	7/12/2022	<b>Element:</b>	UNDERGROUND TRANSMISSION

Code Application:	Subclass/Savings:	Project Location:
Not Applicable	Not Applicable	Area Wide: Floor(s) S

**Description**

The area along Berkley Drive in the southern portion of campus has abandoned electrical duct bank that is recommended for removal.

All costs shown as Present Value

**Project Cost Estimate**

Task Description	Unit	Qty	Material Unit Cost	Total Material Cost	Labor Unit Cost	Total Labor Cost	Total Cost
Remove ductbank	LF	2,500	\$12.00	\$30,000	\$41.00	\$102,500	\$132,500
<b>Base Material/Labor Costs</b>				<b>\$30,000</b>		<b>\$102,500</b>	
<b>Indexed Material/Labor Costs</b>				<b>\$30,210</b>		<b>\$73,083</b>	<b>\$103,293</b>
<b>Construction Mark Up at 20.0%</b>							<b>\$20,659</b>
<b>Original Construction Cost</b>							<b>\$123,951</b>
<b>Date of Original Estimate:</b>	7/12/2022					<b>Inflation</b>	<b>\$0</b>
<b>Current Year Construction Cost</b>							<b>\$123,951</b>
<b>No Professional Fees Required</b>							<b>\$0</b>
<b>TOTAL PROJECT COST</b>							<b>\$123,951</b>



# Section 4





### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED12	1/0 CABLE - 15 KV	SS-12W (3) TO FLETCHER TX	POD 2 BAY 2	SITE	140	LF	1.25	\$6,849	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-12W (4) TO WEST END DH TX	POD 2 BAY 2	SITE	480	LF	1.25	\$23,483	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-13 (3) TO CLEMENT TX	POD 2 BAY 2	SITE	50	LF	1.25	\$2,446	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-17 (4) TO JENKINFS FA TX	POD 2 BAY 2	SITE	320	LF	1.25	\$15,655	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-17 (5) TO JENKINFS FA TX	POD 2 BAY 2	SITE	300	LF	1.25	\$14,677	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-11 (4) TO GREENE TX	POD 2 BAY 2	SITE	20	LF	1.25	\$978	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-13 (4) TO WHITE TX	POD 2 BAY 2	SITE	156	LF	1.25	\$7,632	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-32 (3) TO ERWIN TX	POD 2 BAY 2	SITE	90	LF	1.25	\$4,403	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-8 (3) TO COTTON CHILLER TX	POD 1 BAY 3	SITE	175	LF	1.25	\$8,561	2005	40		2045
ED12	1/0 CABLE - 15 KV	COTTON CHILLER TX TO COTTON TX	POD 1 BAY 3	SITE	20	LF	1.25	\$978	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-8 (4) TO JARVIS TX	POD 1 BAY 3	SITE	270	LF	1.25	\$13,209	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-23 (3) TO WRIGHT AUD. HVAC TX	POD 1 BAY 3	SITE	50	LF	1.25	\$2,446	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-23 (4) TO SPILLMAN TX	POD 1 BAY 3	SITE	417	LF	1.25	\$20,401	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-24 (3) TO WRIGHT AUD. TX	POD 1 BAY 3	SITE	20	LF	1.25	\$978	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED12	1/0 CABLE - 15 KV	SS-25 (3) TO RAGSDALE TX	POD 1 BAY 4	SITE	85	LF	1.25	\$4,158	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-25 (4) TO WHICHARD TX	POD 1 BAY 4	SITE	285	LF	1.25	\$13,943	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-6 (3) TO SPEIGHT TX	POD 1 BAY 4	SITE	297	LF	1.25	\$14,530	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-33 (3) TO CROATAN TX	POD 1 BAY 4	SITE	593	LF	1.25	\$29,011	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-33 (4) TO FLETCHER MUSIC TX	POD 1 BAY 4	SITE	45	LF	1.25	\$2,202	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-14 (4) TO RIVERS TX	POD 1 BAY 4	SITE	100	LF	1.25	\$4,892	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-29 (3) TO MCGINNIS AUD, TX	POD 1 BAY 3	SITE	195	LF	1.25	\$9,540	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-34 (3) TO C.M. GYM	POD 1 BAY 3	SITE	85	LF	1.25	\$4,158	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-15 (3) TO HSC TX	POD 1 BAY 3	SITE	45	LF	1.25	\$2,202	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-9A (4) TO FLANAGAN TX	POD 1 BAY 3	SITE	35	LF	1.25	\$1,712	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-31 (3) TO JOYNER LIB. TX-1	POD 2 BAY 5	SITE	192	LF	1.25	\$9,393	1998	40		2038
ED12	1/0 CABLE - 15 KV	SS-12E (1) TO BREWSTER TX	POD 1 BAY 5	SITE	160	LF	1.25	\$7,828	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-15B (4) TO CHILLER PLANT TX-1	POD 1 BAY 2	SITE	90	LF	1.25	\$4,403	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-15C (3) TO CHILLER PLANT TX-2	POD 1 BAY 2	SITE	101	LF	1.25	\$4,941	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED12	1/0 CABLE - 15 KV	SS-15A (4) TO S&T TX	POD 1 BAY 2	SITE	15	LF	1.25	\$734	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22D (3) TO TODD DH TX	POD 1 BAY 4	SITE	605	LF	1.25	\$29,598	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22A (4) TO SCOTT TX	POD 1 BAY 4	SITE	90	LF	1.25	\$4,403	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22E (3) TO BALLARD HVAC TX	POD 1 BAY 4	SITE	300	LF	1.25	\$14,677	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22E (4) TO BALLARD WEST TX	POD 1 BAY 4	SITE	300	LF	1.25	\$14,677	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22 (3) TO BALLARD EAST TX	POD 1 BAY 4	SITE	320	LF	1.25	\$15,655	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22 (4) TO TYLER TX	POD 1 BAY 4	SITE	525	LF	1.25	\$25,684	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-22C (3) TO SCOTT CHILLER TX	POD 1 BAY 4	SITE	20	LF	1.25	\$978	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-3B (4) TO N. SIDE L&P TX	POD 1 BAY 4	SITE	200	LF	1.25	\$9,784	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-19 (3) TO STEAM PLANT TX	POD 1 BAY 3	SITE	250	LF	1.25	\$12,231	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-9B (3) TO S&T COOLING TOWER TX	POD 1 BAY 3	SITE	65	LF	1.25	\$3,180	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-31A (4) TO STUDENT HEALTH TX	POD 2 BAY 5	SITE	280	LF	1.25	\$13,698	2000	40		2040
ED12	1/0 CABLE - 15 KV	SS-9 (3) TO MAIN. WARE. SLAY TX	POD 1 BAY 3	SITE	250	LF	1.25	\$12,231	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED12	1/0 CABLE - 15 KV	SS-21B (3) TO MINGES CHILLER TX	POD 1 BAY 5	SITE	40	LF	1.25	\$1,957	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-21B (4) TO MURPHY CENTER TX	POD 1 BAY 5	SITE	510	LF	1.25	\$24,950	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-21 (3) TO MINGES COL. TX	POD 1 BAY 5	SITE	30	LF	1.25	\$1,468	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-21A (3) TO WARDS SPORT MED. TX	POD 1 BAY 5	SITE	280	LF	1.25	\$13,698	2016	40		2056
ED12	1/0 CABLE - 15 KV	SS-21A (4) TO FICKLEN SOUTH TX	POD 1 BAY 5	SITE	225	LF	1.25	\$11,008	2016	40		2056
ED12	1/0 CABLE - 15 KV	SS-31B (3) TO BLOUNT HOUSE TX	POD 2 BAY 1	SITE	130	LF	1.25	\$6,360	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-204 (3) TO ST. UNION & DECK TX	POD 2 BAY 6	SITE	15	LF	1.25	\$734	2017	40		2057
ED12	1/0 CABLE - 15 KV	SS-500 (3) TO LIFE SCI. & BIO TX	POD 2 BAY 6	SITE	500	LF	1.25	\$24,461	2020	40		2060
ED12	1/0 CABLE - 15 KV	SS-16A (3) TO TRAFFIC SERV. BLDG. TX	POD 2 BAY 5	SITE	140	LF	1.25	\$6,849	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-16A (4) TO EAKIN ST. REC TX	POD 2 BAY 5	SITE	160	LF	1.25	\$7,828	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-205 (3) TO CCP3 TX-2	POD 2 BAY 6	SITE	25	LF	1.25	\$1,223	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-205 (4) TO CCP3 TX-1	POD 2 BAY 6	SITE	15	LF	1.25	\$734	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTR DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED12	1/0 CABLE - 15 KV	SS-16 (3) TO MENDENHALL TX	POD 2 BAY 5	SITE	110	LF	1.25	\$5,381	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-16 (4) TO JOYNER FIRE PUMP TX	POD 2 BAY 5	SITE	251	LF	1.25	\$12,280	2005	40		2045
ED12	1/0 CABLE - 15 KV	SS-18 (4) TO JOYNER LIB. TX-2	POD 2 BAY 5	SITE	450	LF	1.25	\$22,015	2005	40		2045
ED15	4/0 CABLE - 15KV	SS-3 (3) TO EAST END ZONE TX	POD 1 BAY 5	SITE	30	LF	1.25	\$2,196	2005	40		2045
ED15	4/0 CABLE - 15KV	SS-22D (4) TO COLLEGE HILL SUITES TX	POD 1 BAY 4	SITE	480	LF	1.25	\$35,130	2005	40		2045
ED15	4/0 CABLE - 15KV	SS-22B (3) TO JONES CHILLER TX	POD 1 BAY 4	SITE	740	LF	1.25	\$54,159	2005	40		2045
ED15	4/0 CABLE - 15KV	SS-22B (4) TO JONES TX	POD 1 BAY 4	SITE	275	LF	1.25	\$20,127	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22B (2) TO SS-22D (2)	POD 1 BAY 4	SITE	30	LF	1.25	\$3,716	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22D (1) TO SS-22A (2)	POD 1 BAY 4	SITE	30	LF	1.25	\$3,716	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22E (1) TO SS-22 (2)	POD 1 BAY 4	SITE	500	LF	1.25	\$61,925	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22A (1) TO SS-22E (2)	POD 1 BAY 4	SITE	300	LF	1.25	\$37,155	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-15A (2) TO SS-38 (1)	POD 1 BAY 2	SITE	274	LF	1.25	\$33,935	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-15A (1) TO SS-15B (1)	POD 1 BAY 2	SITE	284	LF	1.25	\$35,174	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-15C(2) TO SS-15 (2)	POD 1 BAY 2 / POD 1 BAY 3	SITE	510	LF	1.25	\$63,164	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED18	500 KCMIL CABLE - 15KV	SS-15B (2) TO SS-15C (1)	POD 1 BAY 2	SITE	60	LF	1.25	\$7,431	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3 (2) TO SS-3B (1)	POD 1 BAY 5	SITE	142	LF	1.25	\$17,587	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3 (1) TO SS-3A (2)	POD 1 BAY 5	SITE	680	LF	1.25	\$84,218	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3A (1) TO SS-3C (2)	POD 1 BAY 4	SITE	20	LF	1.25	\$2,477	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3 (4) TO SS-21A (2)	POD 1 BAY 5	SITE	1,100	LF	1.25	\$136,236	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3B (2) TO SS-3C (4)	POD 1 BAY 4	SITE	420	LF	1.25	\$52,017	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR-1 (4) TO SS-3C (3)	POD 1 BAY 4	SITE	1,969	LF	1.25	\$243,862	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22C (1) TO SS-3C (1)	POD 1 BAY 4	SITE	920	LF	1.25	\$113,943	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-22 (1) TO SS-22C (4)	POD 1 BAY 4	SITE	725	LF	1.25	\$89,792	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-9 (1) TO SS-9B (1)	POD 1 BAY 3	SITE	30	LF	1.25	\$3,716	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR -1 (3) TO SS-19 (1)	POD 1 BAY 3	SITE	464	LF	1.25	\$57,467	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-30 (3) TO SS-31B (2)	POD 2 BAY 1	SITE	337	LF	1.25	\$41,738	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-9A (2) TO SS-9B (2)	POD 1 BAY 3	SITE	112	LF	1.25	\$13,871	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR -1 (2) TO SS-38 (4)	POD 1 BAY 2	SITE	2,341	LF	1.25	\$289,934	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED18	500 KCMIL CABLE - 15KV	SS-38 (2) TO SS-30 (1)	POD 1 BAY 3	SITE	20	LF	1.25	\$2,477	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-38 (3) TO SS-9 (2)	POD 1 BAY 3	SITE	344	LF	1.25	\$42,605	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-9B (4) TO SS-30 (4)	POD 1 BAY 3	SITE	25	LF	1.25	\$3,096	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-19 (2) TO SS-30 (2)	POD 1 BAY 3	SITE	554	LF	1.25	\$68,613	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-12F (4) TO SS-12E (1)	POD 1 BAY 5	SITE	30	LF	1.25	\$3,716	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-12F (2) TO MH-229 SPLICE	POD 1 BAY 5	SITE	1,950	LF	1.25	\$241,509	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-3A (4) TO MH-299 SPLICE	POD 1 BAY 5	SITE	1,850	LF	1.25	\$229,124	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-206 (1) TO MH-229 SPLICE	POD 1 BAY 5	SITE	200	LF	1.25	\$24,770	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-206 (2) TO MH-229 SPLICE	POD 1 BAY 5	SITE	200	LF	1.25	\$24,770	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-34 (4) TO SS-12F (3)	POD 1 BAY 3	SITE	472	LF	1.25	\$58,457	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-34 (1) TO SS-15 (1)	POD 1 BAY 3	SITE	140	LF	1.25	\$17,339	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-203 (2) TO SS-202 (2)	POD 2 BAY 2	SITE	1,155	LF	1.25	\$143,047	2013	40		2053
ED18	500 KCMIL CABLE - 15KV	SS-10 (1) TO SS-34 (2)	POD 1 BAY 3	SITE	411	LF	1.25	\$50,903	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-14 (2) TO SS-33 (2)	POD 1 BAY 4	SITE	735	LF	1.25	\$91,030	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-33 (1) TO SS-5 (2)	POD 1 BAY 4	SITE	1,033	LF	1.25	\$127,938	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED18	500 KCMIL CABLE - 15KV	SS-5 (3) TO SS-12E (2)	POD 1 BAY 5	SITE	554	LF	1.25	\$68,613	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-5 (1) TO SS-22B (1)	POD 1 BAY 4	SITE	1,280	LF	1.25	\$158,529	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-28 (1) TO SS-9A (1)	POD 1 BAY 3	SITE	181	LF	1.25	\$22,417	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-29 (2) TO SS-10 (2)	POD 1 BAY 3	SITE	320	LF	1.25	\$39,632	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-6 (2) TO SS-14 (1)	POD 1 BAY 4	SITE	355	LF	1.25	\$43,967	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-24 (2) TO SS-29 (1)	POD 1 BAY 3	SITE	496	LF	1.25	\$61,430	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-25 (2) TO SS-6 (1)	POD 1 BAY 4	SITE	683	LF	1.25	\$84,590	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-27 (3) TO SS-23 (1)	POD 1 BAY 3	SITE	237	LF	1.25	\$29,353	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-27 (1) TO SS-28 (2)	POD 1 BAY 3	SITE	212	LF	1.25	\$26,256	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-23 (2) TO SS-24 (1)	POD 1 BAY 3	SITE	137	LF	1.25	\$16,968	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-17T (2) TO SS-25 (1)	POD 1 BAY 3 / POD 1 BAY 4	SITE	2,722	LF	1.25	\$337,121	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-17T (3) TO SS-8 (2)	POD 1 BAY 3	SITE	1,486	LF	1.25	\$184,042	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-8 (1) TO SS-27 (2)	POD 1 BAY 3	SITE	309	LF	1.25	\$38,270	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-11 (1) TO SS-32 (2)	POD 2 BAY 2	SITE	552	LF	1.25	\$68,366	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-17 (3) TO SS-17T (1)	POD 2 BAY 2 / POD 1 BAY 3	SITE	50	LF	1.25	\$6,193	2005	40		2045



### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTR DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED18	500 KCMIL CABLE - 15KV	SS-202 (3) TO SS-32 (1)	POD 2 BAY 2	SITE	714	LF	1.25	\$88,429	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-201 (1) TO SS-202 (4)	POD 2 BAY 5 / POD 2 BAY 2	SITE	731	LF	1.25	\$90,535	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR-3 (2) TO SS-11 (2)	POD 2 BAY 2	SITE	1,440	LF	1.25	\$178,345	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-12W TO MH-105 (SPLICE)	POD 2 BAY 2	SITE	734	LF	1.25	\$90,906	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-17 TO MH-105 (SPLICE)	POD 2 BAY 2	SITE	300	LF	1.25	\$37,155	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-13 (1) TO SS-11 (3)	POD 2 BAY 2	SITE	381	LF	1.25	\$47,187	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-17 (1) TO MH-104A (SPLICE)	POD 2 BAY 2	SITE	29	LF	1.25	\$3,592	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	MH-104A (SPLICE) TO SS-203 (1)	POD 2 BAY 2	SITE	1,034	LF	1.25	\$128,061	2013	40		2053
ED18	500 KCMIL CABLE - 15KV	SS-12W (2) TO SS-13 (2)	POD 2 BAY 2	SITE	435	LF	1.25	\$53,875	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-31 (4) SS-31A (2)	POD 2 BAY 5	SITE	50	LF	1.25	\$6,193	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-18 (1) TO SS-31A (1)	POD 2 BAY 5	SITE	476	LF	1.25	\$58,953	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-16 (1) TO SS-18 (3)	POD 2 BAY 5	SITE	215	LF	1.25	\$26,628	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-16 (2) TO SS-16A (1)	POD 2 BAY 5	SITE	450	LF	1.25	\$55,733	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-500 (2) TO SS-204 (1)	POD 2 BAY 6	SITE	1,365	LF	1.25	\$169,056	2020	40		2060

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED18	500 KCMIL CABLE - 15KV	SS-204 (2) TO SS-205 (2)	POD 2 BAY 6	SITE	625	LF	1.25	\$77,407	2016	40		2056
ED18	500 KCMIL CABLE - 15KV	SS-201 (2) SS-16A (2)	POD 2 BAY 5	SITE	20	LF	1.25	\$2,477	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-201 (3) TO SS-205 (1)	POD 2 BAY 6	SITE	461	LF	1.25	\$57,095	2016	40		2056
ED18	500 KCMIL CABLE - 15KV	SS-201 (4) TO SS-31 (1)	POD 2 BAY 5	SITE	1,050	LF	1.25	\$130,043	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR-3 (5) TO SS-18 (2)	POD 2 BAY 5	SITE	975	LF	1.25	\$120,754	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR-3 (6) TO SS-500 (1)	POD 2 BAY 6	SITE	1,210	LF	1.25	\$149,859	2020	40		2060
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR- 3 (1) TO SS-31B (1)	POD 2 BAY 1	SITE	1,575	LF	1.25	\$195,065	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-21 (1) TO SS-21A (1)	POD 1 BAY 5	SITE	358	LF	1.25	\$44,338	2016	40		2056
ED18	500 KCMIL CABLE - 15KV	SS-9 (4) TO SS-31 (2)	POD 1 BAY 3	SITE	328	LF	1.25	\$40,623	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	ECU SWITCHGEAR -1 (5) TO SS-21B (2)	POD 1 BAY 5	SITE	927	LF	1.25	\$114,809	2005	40		2045
ED18	500 KCMIL CABLE - 15KV	SS-21 (2) TO SS-21B (1)	POD 1 BAY 5	SITE	30	LF	1.25	\$3,716	2005	40		2045
ED19	#2 CABLE - 15KV	SS-203 (4) TO MH-204 TO GARRET TX	POD 2 BAY 2	SITE	470	LF	1.25	\$20,158	2017	40		2057
ED19	#2 CABLE - 15KV	SS-32 (4) TO M. JENKINS TX	POD 2 BAY 2	SITE	300	LF	1.25	\$12,867	2005	40		2045

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED19	#2 CABLE - 15KV	M.JENKINS TX TO OLD CAF TX	POD 2 BAY 2	SITE	60	LF	1.25	\$2,573	2005	40		2045
ED19	#2 CABLE - 15KV	SS-28 (3) TO GRAHAM TX	POD 1 BAY 3	SITE	137	LF	1.25	\$5,876	2005	40		2045
ED19	#2 CABLE - 15KV	SS-28 (4) TO RAWL TX	POD 1 BAY 3	SITE	550	LF	1.25	\$23,589	2005	40		2045
ED19	#2 CABLE - 15KV	SS-10 (3) TO AUSTIN TX-1	POD 1 BAY 3	SITE	140	LF	1.25	\$6,005	2005	40		2045
ED19	#2 CABLE - 15KV	SS-10 (3) TO AUSTIN TX-2	POD 1 BAY 3	SITE	145	LF	1.25	\$6,219	2005	40		2045
ED19	#2 CABLE - 15KV	SS-206 (3) TO LEGACY TX-1	POD 1 BAY 5	SITE	80	LF	1.25	\$3,431	2005	40		2045
ED19	#2 CABLE - 15KV	SS-206 (4) TO LEGACY TX-2	POD 1 BAY 5	SITE	80	LF	1.25	\$3,431	2005	40		2045
ED19	#2 CABLE - 15KV	SS-15C (4) TO BATE TX	POD 1 BAY 2	SITE	305	LF	1.25	\$13,081	2005	40		2045
ED35	DUCT BANK	MH-15 TO MH-16		SITE	270	LF	1.00	\$31,358	2015	75		2090
ED35	DUCT BANK	MH-16 TO MH-17		SITE	152	LF	1.00	\$17,653	2015	75		2090
ED35	DUCT BANK	MH-17 TO MH-18		SITE	195	LF	1.00	\$22,647	2015	75		2090
ED35	DUCT BANK	MH-18 TO MH-19		SITE	202	LF	1.00	\$23,460	2015	75		2090
ED35	DUCT BANK	MH-14 TO MH-15		SITE	99	LF	1.00	\$11,498	1968	75		2043
ED35	DUCT BANK	MH-13 TO MH-14		SITE	109	LF	1.00	\$12,659	1968	75		2043
ED35	DUCT BANK	MH-25 TO MH-13A		SITE	225	LF	1.00	\$26,132	1968	75		2043

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-13A TO MH-14A		SITE	60	LF	1.00	\$6,968	1968	75		2043
ED35	DUCT BANK	MH-14A TO MH-15A		SITE	95	LF	1.00	\$11,033	2015	75		2090
ED35	DUCT BANK	MH-13 TO TRANSFORMER		SITE	23	LF	1.00	\$2,671	1968	75		2043
ED35	DUCT BANK	MH-25 TO MH-1		SITE	214	LF	1.00	\$24,854	1968	75	-18	2025
ED35	DUCT BANK	MH-1 TO MH-2		SITE	50	LF	1.00	\$5,807	1968	75	-18	2025
ED35	DUCT BANK	SWITCHGEAR-1 TO MH-1A		SITE	87	LF	1.00	\$10,104	1968	75	-18	2025
ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2A		SITE	97	LF	1.00	\$11,266	1968	75	-18	2025
ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2B		SITE	92	LF	1.00	\$10,685	1968	75	-18	2025
ED35	DUCT BANK	MH-2 TO MH-3		SITE	75	LF	1.00	\$8,711	1968	75	-18	2025
ED35	DUCT BANK	MH-3 TO MH-4		SITE	240	LF	1.00	\$27,874	1968	75	-18	2025
ED35	DUCT BANK	MH-4 TO MH-5		SITE	254	LF	1.00	\$29,500	1968	75	-18	2025
ED35	DUCT BANK	MH-5 TO MH-6		SITE	271	LF	1.00	\$31,474	1968	75	-18	2025
ED35	DUCT BANK	MH-6 TO MH-7		SITE	202	LF	1.00	\$23,460	1968	75	-18	2025
ED35	DUCT BANK	MH-7 TO MH-8		SITE	205	LF	1.00	\$23,809	1968	75	-18	2025
ED35	DUCT BANK	MH-8 TO MH-8A		SITE	101	LF	1.00	\$11,730	1968	75	-18	2025

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-13 TO TRANSFORMER		SITE	23	LF	1.00	\$2,671	1968	75		2043
ED35	DUCT BANK	MH-8A TO SS-21A		SITE	57	LF	1.00	\$6,620	1968	75		2043
ED35	DUCT BANK	SS-21A TO WARD TX		SITE	110	LF	1.00	\$12,775	1968	75		2043
ED35	DUCT BANK	MH-2B TO MH-221		SITE	371	LF	1.00	\$43,088	2015	75		2090
ED35	DUCT BANK	MH-221 TO MH-222		SITE	419	LF	1.00	\$48,663	2015	75		2090
ED35	DUCT BANK	MH-222 TO MH-223		SITE	384	LF	1.00	\$44,598	2015	75		2090
ED35	DUCT BANK	MH-223 TO MH-224		SITE	172	LF	1.00	\$19,976	2015	75		2090
ED35	DUCT BANK	MH-224 TO MH-225		SITE	125	LF	1.00	\$14,518	2015	75		2090
ED35	DUCT BANK	MH-225 TO MH-226		SITE	68	LF	1.00	\$7,898	2015	75		2090
ED35	DUCT BANK	MH-226 TO MH-227		SITE	280	LF	1.00	\$32,519	2015	75		2090
ED35	DUCT BANK	MH-227 TO MH-228		SITE	315	LF	1.00	\$36,584	2015	75		2090
ED35	DUCT BANK	MH-227 TO SCOTT CHILLER		SITE	64	LF	1.00	\$7,433	2015	75		2090
ED35	DUCT BANK	MH-11A TO STADIUM SWITCH		SITE	35	LF	1.00	\$4,065	1968	75		2043
ED35	DUCT BANK	MH-11A TO SS-3		SITE	107	LF	1.00	\$12,427	1968	75		2043
ED35	DUCT BANK	MH-51P TO SS-3		SITE	90	LF	1.00	\$10,453	1968	75		2043

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-51P TO MH-52P		SITE	450	LF	1.00	\$52,263	1968	75		2043
ED35	DUCT BANK	MH-52P TO MH-93B		SITE	173	LF	1.00	\$20,092	2015	75		2090
ED35	DUCT BANK	MH-93B TO MH-224		SITE	353	LF	1.00	\$40,998	2015	75		2090
ED35	DUCT BANK	MH-228 TO MH-228A		SITE	227	LF	1.00	\$26,364	2015	75		2090
ED35	DUCT BANK	MH-228 TO MH-85		SITE	97	LF	1.00	\$11,266	1968	75		2043
ED35	DUCT BANK	MH-85 TO TYLER TX		SITE	225	LF	1.00	\$26,132	1968	75		2043
ED35	DUCT BANK	MH-85 TO BELK TX		SITE	110	LF	1.00	\$12,775	1968	75		2043
ED35	DUCT BANK	MH-228A TO MH-84		SITE	67	LF	1.00	\$7,781	2015	75		2090
ED35	DUCT BANK	MH-84 TO SCOTT TX (QUAZITE BOX)		SITE	138	LF	1.00	\$16,027	2015	75		2090
ED35	DUCT BANK	MH-83 TO AYCOCK TX		SITE	120	LF	1.00	\$13,937	1968	75		2043
ED35	DUCT BANK	MH-83A TO MH-83B		SITE	240	LF	1.00	\$27,874	1968	75		2043
ED35	DUCT BANK	MH-83B TO TODD TX		SITE	115	LF	1.00	\$13,356	1968	75		2043
ED35	DUCT BANK	MH-82 TO JONES TX		SITE	320	LF	1.00	\$37,165	1968	75		2043
ED35	DUCT BANK	MH-228A TO MH-229		SITE	261	LF	1.00	\$30,313	2015	75		2090
ED35	DUCT BANK	MH-229 TO MH-230		SITE	374	LF	1.00	\$43,437	2015	75		2090

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-230 TO MH231		SITE	298	LF	1.00	\$34,610	2015	75		2090
ED35	DUCT BANK	MH-19 TO MH-20		SITE	300	LF	1.00	\$34,842	1968	75		2043
ED35	DUCT BANK	MH-231 TO MH-232		SITE	343	LF	1.00	\$39,836	2015	75		2090
ED35	DUCT BANK	MH-232 TO MH-233		SITE	139	LF	1.00	\$16,144	2015	75		2090
ED35	DUCT BANK	MH-233 TO MH-234		SITE	357	LF	1.00	\$41,462	2015	75		2090
ED35	DUCT BANK	MH-234 TO MH-29		SITE	140	LF	1.00	\$16,260	2015	75		2090
ED35	DUCT BANK	MH-29 TO MH-28		SITE	183	LF	1.00	\$21,254	2015	75		2090
ED35	DUCT BANK	MH-80 TO MH81		SITE	244	LF	1.00	\$28,338	1968	75	-19	2024
ED35	DUCT BANK	MH-81 TO MH82		SITE	209	LF	1.00	\$24,273	1968	75	-19	2024
ED35	DUCT BANK	MH-82 TO MH83A		SITE	329	LF	1.00	\$38,210	1968	75	-19	2024
ED35	DUCT BANK	MH-83A TO MH83		SITE	10	LF	1.00	\$1,161	1968	75	-19	2024
ED35	DUCT BANK	MH-83 TO MH84A		SITE	215	LF	1.00	\$24,970	1968	75	-19	2024
ED35	DUCT BANK	MH-84A TO MH84		SITE	16	LF	1.00	\$1,858	1968	75	-19	2024
ED35	DUCT BANK	MH-84 TO MH85		SITE	235	LF	1.00	\$27,293	1968	75	-19	2024
ED35	DUCT BANK	MH-29 TO MH-30		SITE	232	LF	1.00	\$26,945	1968	75	-17	2026

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-30 TO MH-31		SITE	209	LF	1.00	\$24,273	1968	75	-17	2026
ED35	DUCT BANK	MH-31 TO MH-32		SITE	113	LF	1.00	\$13,124	1968	75	-17	2026
ED35	DUCT BANK	MH-32 TO MH-33		SITE	136	LF	1.00	\$15,795	1968	75	-17	2026
ED35	DUCT BANK	MH-33 TO MH-34		SITE	200	LF	1.00	\$23,228	1968	75	-17	2026
ED35	DUCT BANK	MH-34 TO MH-94		SITE	355	LF	1.00	\$41,230	1968	75	-17	2026
ED35	DUCT BANK	MH-94 TO MH-95		SITE	214	LF	1.00	\$24,854	1968	75	-17	2026
ED35	DUCT BANK	MH-34 TO FLETCHER TX		SITE	45	LF	1.00	\$5,226	1968	75		2043
ED35	DUCT BANK	MH-29 TO BREWSTER TX		SITE	185	LF	1.00	\$21,486	1968	75		2043
ED35	DUCT BANK	MH-95 TO MH-96		SITE	267	LF	1.00	\$31,010	1968	75	-16	2027
ED35	DUCT BANK	MH-96 TO MH-97		SITE	254	LF	1.00	\$29,500	1968	75	-16	2027
ED35	DUCT BANK	MH-97 TO MH-99		SITE	358	LF	1.00	\$41,578	1968	75	-16	2027
ED35	DUCT BANK	MH-99 TO MH-100		SITE	325	LF	1.00	\$37,746	1968	75	-16	2027
ED35	DUCT BANK	MH-100 TO MH-101		SITE	315	LF	1.00	\$36,584	1968	75	-16	2027
ED35	DUCT BANK	MH-101 TO MH-102		SITE	319	LF	1.00	\$37,049	1968	75	-16	2027
ED35	DUCT BANK	MH-102 TO MH-103		SITE	290	LF	1.00	\$33,681	1968	75	-16	2027



### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-103 TO MH-104		SITE	283	LF	1.00	\$32,868	1968	75	-16	2027
ED35	DUCT BANK	MH-104 TO MH-105		SITE	300	LF	1.00	\$34,842	1968	75	-16	2027
ED35	DUCT BANK	MH-105 TO MH-106		SITE	293	LF	1.00	\$34,029	1968	75	-16	2027
ED35	DUCT BANK	MH-106 TO MH-107		SITE	266	LF	1.00	\$30,893	1968	75	-16	2027
ED35	DUCT BANK	MH-107 TO SS-12W		SITE	175	LF	1.00	\$20,325	1968	75	-16	2027
ED35	DUCT BANK	MH-104 TO MH-104A		SITE	29	LF	1.00	\$3,368	1968	75	-16	2027
ED35	DUCT BANK	MH-72 TO MH-73		SITE	90	LF	1.00	\$10,453	1968	75	-20	2023
ED35	DUCT BANK	MH-73 TO MH-74		SITE	66	LF	1.00	\$7,665	1968	75	-20	2023
ED35	DUCT BANK	MH-74 TO MH-75		SITE	116	LF	1.00	\$13,472	1968	75	-20	2023
ED35	DUCT BANK	MH-75 TO MH-77		SITE	139	LF	1.00	\$16,144	1968	75	-20	2023
ED35	DUCT BANK	MH-73 TO CHRIS. MEM. GYM TX		SITE	85	LF	1.00	\$9,872	1968	75		2043
ED35	DUCT BANK	MH-71 TO MH-72		SITE	105	LF	1.00	\$12,195	1968	75		2043
ED35	DUCT BANK	MH-71 TO 71A		SITE	85	LF	1.00	\$9,872	1968	75		2043
ED35	DUCT BANK	MH-71A TO MH-71B		SITE	115	LF	1.00	\$13,356	1968	75		2043
ED35	DUCT BANK	MH-71B TO MH-71C		SITE	120	LF	1.00	\$13,937	1968	75		2043

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-71C TO MH-71D		SITE	91	LF	1.00	\$10,569	1968	75		2043
ED35	DUCT BANK	MH-71D TO MH-71E		SITE	120	LF	1.00	\$13,937	1968	75		2043
ED35	DUCT BANK	MH-71C TO MH-71F		SITE	130	LF	1.00	\$15,098	1968	75		2043
ED35	DUCT BANK	MH-71F TO MH-71G		SITE	81	LF	1.00	\$9,407	1968	75		2043
ED35	DUCT BANK	MH-71 TO HOWELL SCIENCE TX		SITE	35	LF	1.00	\$4,065	1968	75		2043
ED35	DUCT BANK	MH-71 TO SS-15		SITE	35	LF	1.00	\$4,065	1968	75		2043
ED35	DUCT BANK	MH-28 TO MH-72		SITE	200	LF	1.00	\$23,228	1968	75	-20	2023
ED35	DUCT BANK	MH-71E TO MH-214		SITE	125	LF	1.00	\$14,518	1968	75		2043
ED35	DUCT BANK	MH-71E TO SS-38		SITE	52	LF	1.00	\$6,039	1968	75		2043
ED35	DUCT BANK	MH-36B TO SS-38		SITE	50	LF	1.00	\$5,807	1968	75		2043
ED35	DUCT BANK	MH-36B		SITE	50	LF	1.00	\$5,807	1968	75		2043
ED35	DUCT BANK	MH-20 TO MH-21		SITE	209	LF	1.00	\$24,273	1968	75	-20	2023
ED35	DUCT BANK	MH-21 TO MH-22		SITE	214	LF	1.00	\$24,854	1968	75	-20	2023
ED35	DUCT BANK	MH-22 TO MH-23		SITE	100	LF	1.00	\$11,614	1968	75	-20	2023
ED35	DUCT BANK	MH-23 TO MH-213		SITE	181	LF	1.00	\$21,021	1968	75	-20	2023

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	INSTL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-36 TO MH-36E		SITE	85	LF	1.00	\$9,872	1968	75		2043
ED35	DUCT BANK	MH-36 TO MH-52		SITE	175	LF	1.00	\$20,325	1968	75		2043
ED35	DUCT BANK	MH-36 TO MH-36F		SITE	25	LF	1.00	\$2,904	1968	75		2043
ED35	DUCT BANK	MH-36 TO SS-9		SITE	25	LF	1.00	\$2,904	1968	75		2043
ED35	DUCT BANK	MH-36 TO SS-9B		SITE	25	LF	1.00	\$2,904	1968	75		2043
ED35	DUCT BANK	MH-36 TO MH-36C		SITE	165	LF	1.00	\$19,163	1968	75	-19	2024
ED35	DUCT BANK	MH-36C TO MH-37		SITE	165	LF	1.00	\$19,163	1968	75	-19	2024
ED35	DUCT BANK	MH-37 TO MH-38A		SITE	163	LF	1.00	\$18,931	1968	75	-19	2024
ED35	DUCT BANK	MH-209 TO MH-212		SITE	336	LF	1.00	\$39,023	2019	75		2094
ED35	DUCT BANK	MH-212 TO MH-213		SITE	376	LF	1.00	\$43,669	1968	75		2043
ED35	DUCT BANK	MH-213 TO MH-214		SITE	178	LF	1.00	\$20,673	1968	75		2043
ED35	DUCT BANK	MH-53 TO MH-54		SITE	309	LF	1.00	\$35,888	1968	75	-15	2028
ED35	DUCT BANK	MH-54 TO MH-55		SITE	183	LF	1.00	\$21,254	1968	75	-15	2028
ED35	DUCT BANK	MH-55 TO MH-56		SITE	211	LF	1.00	\$24,506	1968	75	-15	2028
ED35	DUCT BANK	MH-56 TO MH-57		SITE	184	LF	1.00	\$21,370	1968	75	-15	2028

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-57 TO MH-58		SITE	202	LF	1.00	\$23,460	1968	75	-15	2028
ED35	DUCT BANK	DUCT TO FLEMING TX		SITE	175	LF	1.00	\$20,325	1968	75		2043
ED35	DUCT BANK	MH-54 TO JARVIS TX		SITE	270	LF	1.00	\$31,358	1968	75		2043
ED35	DUCT BANK	MH-56 TO MH-40 TO MH-42 (EMPTY)		SITE	1,000	LF	1.00	\$116,141	1968	75		2043
ED35	DUCT BANK	MH-60 TO MH-61		SITE	221	LF	1.00	\$25,667	1968	75		2043
ED35	DUCT BANK	MH-61 TO SPILMAN TX		SITE	60	LF	1.00	\$6,968	1968	75		2043
ED35	DUCT BANK	MH-42 TO MAIN CAFETERIA TX		SITE	175	LF	1.00	\$20,325	1968	75		2043
ED35	DUCT BANK	MH-42 TO ERWIN TX		SITE	90	LF	1.00	\$10,453	1968	75		2043
ED35	DUCT BANK	MH-42 TO MH-58		SITE	240	LF	1.00	\$27,874	1968	75		2043
ED35	DUCT BANK	MH-58 TO MH-204		SITE	171	LF	1.00	\$19,860	1968	75		2043
ED35	DUCT BANK	MH-204 TO MH-205		SITE	355	LF	1.00	\$41,230	1968	75		2043
ED35	DUCT BANK	MH-205 TO MH-104A		SITE	180	LF	1.00	\$20,905	1968	75		2043
ED35	DUCT BANK	SS-13 TO FLETCHER TX		SITE	440	LF	1.00	\$51,102	1968	75		2043
ED35	DUCT BANK	SS-13 TO WHITE TX		SITE	156	LF	1.00	\$18,118	1968	75		2043
ED35	DUCT BANK	MH-38 TO MH-111		SITE	41	LF	1.00	\$4,762	1968	75	-19	2024

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-111 TO MH-209		SITE	133	LF	1.00	\$15,447	1968	75	-19	2024
ED35	DUCT BANK	MH-111 TO MH-112		SITE	175	LF	1.00	\$20,325	1968	75	-19	2024
ED35	DUCT BANK	MH-112 TO JOYNER TX		SITE	95	LF	1.00	\$11,033	1968	75		2043
ED35	DUCT BANK	MH-38 TO JOYNER LIB TX		SITE	120	LF	1.00	\$13,937	1968	75		2043
ED35	DUCT BANK	MH-38A TO MH-38		SITE	50	LF	1.00	\$5,807	1968	75	-19	2024
ED35	DUCT BANK	MH-53 TO SS-28		SITE	212	LF	1.00	\$24,622	1968	75	-15	2028
ED35	DUCT BANK	MH-49B TO SS-28		SITE	50	LF	1.00	\$5,807	1968	75	-15	2028
ED35	DUCT BANK	MH-49B TO MH-49C		SITE	140	LF	1.00	\$16,260	1968	75		2043
ED35	DUCT BANK	MH-49C TO MH-49D		SITE	206	LF	1.00	\$23,925	1968	75		2043
ED35	DUCT BANK	MH-49D TO RAWLS TX		SITE	95	LF	1.00	\$11,033	1968	75		2043
ED35	DUCT BANK	MH-49B TO GRAHAM TX		SITE	50	LF	1.00	\$5,807	1968	75		2043
ED35	DUCT BANK	MH-50 TO SS-28		SITE	181	LF	1.00	\$21,021	1968	75		2043
ED35	DUCT BANK	MH-50 TO MH-51		SITE	85	LF	1.00	\$9,872	1968	75		2043
ED35	DUCT BANK	MH-51 TO MH-52		SITE	233	LF	1.00	\$27,061	1968	75		2043
ED35	DUCT BANK	MH-77 TO MH-66		SITE	300	LF	1.00	\$34,842	2015	75		2090

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-77 TO AUSTIN TX		SITE	100	LF	1.00	\$11,614	1968	75		2043
ED35	DUCT BANK	MH-66 TO AUSTIN TX		SITE	150	LF	1.00	\$17,421	1968	75		2043
ED35	DUCT BANK	MH-53 TO MH-61		SITE	201	LF	1.00	\$23,344	1968	75	-15	2028
ED35	DUCT BANK	MH-61 TO MH-62		SITE	135	LF	1.00	\$15,679	1968	75	-15	2028
ED35	DUCT BANK	MH-62 TO MH-63		SITE	137	LF	1.00	\$15,911	1968	75	-15	2028
ED35	DUCT BANK	MH-63 TO MH-64		SITE	147	LF	1.00	\$17,073	1968	75	-15	2028
ED35	DUCT BANK	MH-64 TO MH-65		SITE	163	LF	1.00	\$18,931	1968	75	-15	2028
ED35	DUCT BANK	MH-65 TO MH-66		SITE	184	LF	1.00	\$21,370	1968	75	-15	2028
ED35	DUCT BANK	MH-66 TO MCGINNIS TX		SITE	135	LF	1.00	\$15,679	1968	75		2043
ED35	DUCT BANK	MH-62 TO WRIGHT TX		SITE	50	LF	1.00	\$5,807	1968	75		2043
ED35	DUCT BANK	MH-63 TO WRIGHT TX		SITE	50	LF	1.00	\$5,807	1968	75		2043
ED35	DUCT BANK	MH-100 TO RAGSDALE TX		SITE	85	LF	1.00	\$9,872	1968	75		2043
ED35	DUCT BANK	MH-100 TO WHICHARD TX		SITE	285	LF	1.00	\$33,100	1968	75		2043
ED35	DUCT BANK	MH-115 TO MH-44		SITE	195	LF	1.00	\$22,647	1968	75	-13	2030
ED35	DUCT BANK	MH-44 TO MH-45		SITE	204	LF	1.00	\$23,693	1968	75	-13	2030

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-206 TO MH-201		SITE	324	LF	1.00	\$37,630	1968	75		2043
ED35	DUCT BANK	MH-201 TO MH-202		SITE	215	LF	1.00	\$24,970	1968	75		2043
ED35	DUCT BANK	MH-202 TO MH-203		SITE	183	LF	1.00	\$21,254	1968	75		2043
ED35	DUCT BANK	MH-203 TO MH-45		SITE	288	LF	1.00	\$33,449	1968	75		2043
ED35	DUCT BANK	MH-45 TO MH-46		SITE	207	LF	1.00	\$24,041	1968	75		2043
ED35	DUCT BANK	MH-46 TO MH-47		SITE	190	LF	1.00	\$22,067	1968	75		2043
ED35	DUCT BANK	MH-45 TO MH-210		SITE	300	LF	1.00	\$34,842	1968	75		2043
ED35	DUCT BANK	MH-210 TO MH-42		SITE	210	LF	1.00	\$24,390	1968	75		2043
ED35	DUCT BANK	X-EMH-209 TO MH-E-1		NEAR STUDENT CTR	100	LF	1.00	\$11,614	2019	75		2094
ED35	DUCT BANK	MH-E-1 TO MH-E-2		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
ED35	DUCT BANK	MH-E-2 TO MH-E-3		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
ED35	DUCT BANK	MH-E-3 TO MH-E-4		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
ED35	DUCT BANK	MH-E-4 TO MH-E-5		NEAR STUDENT CTR	350	LF	1.00	\$40,649	2019	75		2094
ED35	DUCT BANK	MH-E-3 TO MH-E-6		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
ED35	DUCT BANK	MH-E-6 TO MH-E-7		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
ED35	DUCT BANK	MH-E-4 TO MH-E-8		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
ED35	DUCT BANK	MH-E-7 TO X-EMH-215		NEAR STUDENT CTR	300	LF	1.00	\$34,842	2019	75		2094
SG30	PAD-MOUNT SWITCH - 15 KV	SS-1		NRC MAIN GATE	1	EA	1.00	\$86,879	1993	30		2023
SG30	PAD-MOUNT SWITCH - 15 KV	SS-2		THSC SERVICE YARD	1	EA	1.00	\$86,879	2009	30	-14	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-3		SE OF FICKLEN	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-3A		N OF FICKLEN	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-3B		N OF FICKLEN	1	EA	1.00	\$86,879	1997	30		2027
SG30	PAD-MOUNT SWITCH - 15 KV	SS-3C		N OF FICKLEN	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-5		SE OF FLETCHER MUSIC	1	EA	1.00	\$86,879	1987	30	4	DR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-6		NW OF SPEIGHT	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-9		NW OF S&T COOLING TWR	1	EA	1.00	\$86,879	2000	30	-5	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-9A		SW OF FLANAGAN	1	EA	1.00	\$86,879	2011	30		2041
SG30	PAD-MOUNT SWITCH - 15 KV	SS-9B		NW OF S&T COOLING TWR	1	EA	1.00	\$86,879	2001	30	-6	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-12E		S OF CHRISTENBUR Y ON 10TH	1	EA	1.00	\$86,879	2005	30		2035



### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-12F		S OF CHRISTENBURY ON 10TH	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-12W		E OF WED ON HILL	1	EA	1.00	\$86,879	2003	30		2033
SG30	PAD-MOUNT SWITCH - 15 KV	SS-14		E OF RIVERS	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-15		S OF HOWELL	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-15A		SVC YARD BATE/S&T	1	EA	1.00	\$86,879	2003	30		2033
SG30	PAD-MOUNT SWITCH - 15 KV	SS-15B		SE OF RAWL	1	EA	1.00	\$86,879	2002	30		2032
SG30	PAD-MOUNT SWITCH - 15 KV	SS-15C		SE OF RAWL	1	EA	1.00	\$86,879	2002	30		2032
SG30	PAD-MOUNT SWITCH - 15 KV	SS-15D		SE OF RAWL	1	EA	1.00	\$86,879	2003	30		2033
SG30	PAD-MOUNT SWITCH - 15 KV	SS-16		S OF MENDENHALL	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-19		NW OF STEAM PLANT	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-21		MINGES SVC YARD	1	EA	1.00	\$86,879	1974	30	17	DR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-21A		W OF WARD	1	EA	1.00	\$86,879	2016	30		2046
SG30	PAD-MOUNT SWITCH - 15 KV	SS-21B		MINGES CHILLER YARD	1	EA	1.00	\$86,879	2001	30	-6	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22		W OF SCOTT ON COLLEGE HILL	1	EA	1.00	\$86,879	2013	30		2043

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22A		W OF SCOTT ON COLLEGE HILL	1	EA	1.00	\$86,879	1980	30	12	2022
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22B		W OF SCOTT ON COLLEGE HILL	1	EA	1.00	\$86,879	1980	30	12	2022
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22C		S OF SCOTT CHILLER YARD	1	EA	1.00	\$86,879	2011	30		2041
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22D		W OF SCOTT ON COLLEGE HILL	1	EA	1.00	\$86,879	1993	30		2023
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22E		GATEWAY W SVC YARD	1	EA	1.00	\$86,879	2014	30		2044
SG30	PAD-MOUNT SWITCH - 15 KV	SS-30		EAST OF BLDG 43	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-31		S OF JOYNER CLOCK TWR	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-31A		S OF JOYNER CLOCK TWR	1	EA	1.00	\$86,879	1999	30		2029
SG30	PAD-MOUNT SWITCH - 15 KV	SS-31B		W OF SLAY DORN	1	EA	1.00	\$86,879	2005	30		2035
SG30	PAD-MOUNT SWITCH - 15 KV	SS-32		S OF MAMIE JENKINS	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-33		E OF FLETCHER MUSIC	1	EA	1.00	\$86,879	2004	30		2034
SG30	PAD-MOUNT SWITCH - 15 KV	SS-34		W OF CHRISTENBURY	1	EA	1.00	\$86,879	2000	30		2030
SG30	PAD-MOUNT SWITCH - 15 KV	SS-38		E OF BLDG 43	1	EA	1.00	\$86,879	2005	30		2035

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-201		SE OF SRC	1	EA	1.00	\$86,879	1996	30		2026
SG30	PAD-MOUNT SWITCH - 15 KV	SS-203		SW OF JENKINS ART	1	EA	1.00	\$86,879	2000	30		2030
SG30	PAD-MOUNT SWITCH - 15 KV	SS-204		W OF PARKING DECK	1	EA	1.00	\$86,879	2017	30		2047
SG30	PAD-MOUNT SWITCH - 15 KV	SS-205		N OF CCP#3	1	EA	1.00	\$86,879	2016	30		2046
SG30	PAD-MOUNT SWITCH - 15 KV	SS-25		N OF RAGSDALE NEAR 5TH	1	EA	1.00	\$86,879	2004	30		2034
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-27		SE OF COTTON	1	EA	1.00	\$180,034	2011	30		2041
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-28		W OF GRAHAM	1	EA	1.00	\$180,034	2011	30		2041
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-29		S OF MESSICK	1	EA	1.00	\$180,034	2014	30		2044
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-206		W OF LEGACY	1	EA	1.00	\$180,034	2020	30		2050
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-500		NE OF LIFE SCIENCES	1	EA	1.00	\$180,034	2020	30		2050
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-202		S OF GREENE DORM	1	EA	1.00	\$180,034	2013	30		2043
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-23		N OF WRIGHT ON BECKWITH DR	1	EA	1.00	\$180,034	2014	30		2044
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-24		N OF WRIGHT ON BECKWITH DR	1	EA	1.00	\$180,034	2014	30		2044
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-16A		SE OF SRC	1	EA	1.00	\$180,034	2016	30		2046

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-17		N OF JENKIN ART ON 5TH	1	EA	1.00	\$180,034	2020	30		2050
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-17T		N OF JENKIN ART ON 5TH	1	EA	1.00	\$180,034	2020	30		2050
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-18		S OF JOYNER	1	EA	1.00	\$180,034	2016	30		2046
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-13		W OF WHITE DORM	1	EA	1.00	\$180,034	2015	30		2045
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-10		S OF AUSTIN	1	EA	1.00	\$180,034	2017	30		2047
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-11		S OF GREENE DORM	1	EA	1.00	\$180,034	2012	30		2042
SG31	PAD- MOUNTED SF6 SWITCH - 15 KV	SS-8		NORTH OF MAIN MALL	1	EA	1.00	\$180,034	2011	30		2041
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-1 POD-1		FICKLEN DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-1 POD-6		FICKLEN DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-1		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-2		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-3		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-4		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-5		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028
SG35	LOAD INTERUPTEER SWITCH - 15 KV	SWITCHGEAR-3 POD-6		LIBRARY DRIVE	1	EA	1.65	\$78,799	1998	30		2028

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-2		FICKLEN DRIVE	1	EA	1.65	\$108,841	1998	30		2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-3		FICKLEN DRIVE	1	EA	1.65	\$108,841	1998	30		2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-4		FICKLEN DRIVE	1	EA	1.65	\$108,841	1998	30		2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-5		FICKLEN DRIVE	1	EA	1.65	\$108,841	1998	30		2028
TX13	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (75-112.5 KVA)	JONES DORM TX-3 FIRE PUMP		W OF JOYNER	75	KVA	1.00	\$36,410	2010	30		2040
TX13	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (75-112.5 KVA)	PARKING & TRAFFIC TX		N OF PARKING & TRAFFIC	75	KVA	1.00	\$36,410	2017	30		2047
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	RAGSDALE TX		W OF RAGSDALE	225	KVA	1.00	\$40,154	2013	30		2043
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	NRC POND TX-1		W OF POND #1	150	KVA	1.65	\$44,170	2005	30		2035
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	NRC POND TX-2		E OF POND #2	150	KVA	1.65	\$44,170	2005	30		2035
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	SPILLMAN TX		SVC YARD S OF SPILLMAN	225	KVA	1.00	\$40,154	2013	30		2043
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	HOLLAND SPORTS COMPLEX TX-3		W OF WHITE LOT	150	KVA	1.65	\$44,170	1994	30		2024
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	HOLLAND SPORTS COMPLEX TX-4		MIDDLE OF WHITE LOT	150	KVA	1.65	\$44,170	2018	30		2048
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	BLOUNT HOUSE TX		NE OF BLOUNT HOUSE	167	KVA	1.50	\$44,705	2011	30		2041
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	ERWIN TX		ERWIN EXTERIOR	150	KVA	1.65	\$44,170	1977	30	14	DR

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	FLETCHER DORM TX		W OF FLETCHER	500	KVA	1.00	\$78,297	2005	35		2040
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	FLETCHER MUSIC TX		NE OF FLETCHER	500	KVA	1.00	\$78,297	2013	35		2048
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	CHRISTENBURY TX		NW OF CHRISTENBURY	300	KVA	1.35	\$63,420	2005	35		2040
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	COTTON/FLEMING TX-1		COTTON/FLEMING SVC YARD	500	KVA	1.00	\$78,297	2007	35		2042
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	COTTON/FLEMING TX-2 CHILLER		COTTON/FLEMING SVC YARD	500	KVA	1.00	\$78,297	2011	35		2046
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	CROATAN DINING TX		NE OF CROATAN	500	KVA	1.00	\$78,297	2010	35		2045
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	SCOTT DORM CHILLER TX		SVC YARD E OF SCOTT	500	KVA	1.00	\$78,297	2005	35		2040
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	TYLER DORM TX		SERVICE YARD SW OF TYLER	500	KVA	1.00	\$78,297	2000	35		2035
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	HOLLAND SPORTS COMPLEX TX-2		N OF INDOOR BAT CAGE	300	KVA	1.35	\$63,420	2008	35		2043
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	WRIGHT TX-1		SVC YARD N OF WRIGHT	300	KVA	1.35	\$63,420	2004	35		2039
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	WRIGH TX-2		NW OF WRIGHT	300	KVA	1.35	\$63,420	1999	35		2034
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	STEAM PLANT TX		N OF STEAM PLANT	500	KVA	1.00	\$78,297	2006	35		2041
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	STUDENT HEALTH TX		SVC YARD W OF ST HEALTH	500	KVA	1.00	\$78,297	2000	35		2035
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	OLD CAFETERIA TX		W OF OLD CAF	500	KVA	1.00	\$78,297	1987	35		2022

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TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	LEGACY DORM TX-1 BUILDING		W OF LEGACY	500	KVA	1.00	\$78,297	2002	35		2037
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	LEGACY DORM TX-2 HVAC		W OF LEGACY	300	KVA	1.35	\$63,420	2020	35		2055
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	NRC BOAT HOUSE TX		W OF BOAT HOUSE	300	KVA	1.35	\$63,420	2010	35		2045
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	JONES DORM TX-2 CHILLER		E OF JONES IN SVC YARD	500	KVA	1.00	\$78,297	2001	35		2036
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	MAMIE JENKINS TX		W OF OLD CAF	300	KVA	1.35	\$63,420	2000	35		2035
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	MCGINNIS / MESSICK TX		E OF MCGINNIS	500	KVA	1.00	\$78,297	2002	35		2037
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	GRAHAM TX		SW OF GRAHAM	300	KVA	1.35	\$63,420	2019	35		2054
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	JARVIS DORM TX		SE OF JARVIS DORM	500	KVA	1.00	\$78,297	2005	35		2040
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	JENKINS ART TX-1		JENKINS ART LOADING DOCK	500	KVA	1.00	\$78,297	2005	35		2040
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	JENKINS ART TX-2		JENKINS ART LOADING DOCK	750	KVA	1.00	\$85,015	2006	35		2041
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	GREENE DORM TX		SW OF GREENE	750	KVA	1.00	\$85,015	2019	35		2054
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	HOWELL SCIENCE TX		SW OF HOWELL	1,000	KVA	1.00	\$113,354	2001	35		2036
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	FLANAGAN TX		SE OF FLANAGAN	750	KVA	1.00	\$85,015	2004	35		2039
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	GATEWAY EAST DORM TX-3		GATEWAY W SVC YARD	750	KVA	1.00	\$85,015	2014	35		2049

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TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	NRC FIELD HOUSE TX		W OF FIELD HOUSE	1,000	KVA	1.00	\$113,354	1983	35	4	2022
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	MURPHY CENTER TX		S OF MURPHY SVC YARD	750	KVA	1.00	\$85,015	2000	35		2035
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	SCOTT DORM TX		W OF SCOTT DORM	750	KVA	1.00	\$85,015	2009	35		2044
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	WHITE DORM TX		S OF WHITE DORM	750	KVA	1.00	\$85,015	2017	35		2052
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	WARD SPORTS TX		S OF WARD	750	KVA	1.00	\$85,015	1988	35		2023
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	SLAY/UMSTEAD/B43 TX		SVC YARD N OF UMSTEAD	750	KVA	1.00	\$85,015	1994	35		2029
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	TODD DOINING TX		S OF TODD LOADING DOCK	750	KVA	1.00	\$85,015	2008	35		2043
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	CLEMENT DORM TX		S OF CLEMENT DORM	750	KVA	1.00	\$85,015	2004	35		2039
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	GARRET DORM TX		S OF GARRETT DORM	750	KVA	1.00	\$85,015	2001	35		2036
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	FICKLEN TX-2		SE OF FICKLEN	1,000	KVA	1.00	\$113,354	2010	35		2045
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	FICKLEN TX-1		FICKLEN NORTH UNDER STADIUM	1,500	KVA	1.00	\$154,981	1997	40		2037
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	GATEWAY EAST DORM TX-1		SW OF SCOTT	1,500	KVA	1.00	\$154,981	2014	40		2054
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	GATEWAY EAST DORM TX-2		GATEWAY W SVC YARD	1,500	KVA	1.00	\$154,981	2014	40		2054
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	WEST END DINING TX		E OF WEST END DINING	1,500	KVA	1.00	\$154,981	2004	40		2044



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TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	JONES DORM TX-1		N OF JONES DORM	1,500	KVA	1.00	\$154,981	2001	40		2041
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	MENDENHALL TX		S OF MENDENHALL	1,500	KVA	1.00	\$154,981	1988	40		2028
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	MINGES TX-2 /CHILLER / CCP#3		E OF CCP#2	1,500	KVA	1.00	\$154,981	2000	40		2040
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	MINGES TX-1 /COLISEUM		S OF MINGES SVC YARD	1,500	KVA	1.00	\$154,981	1994	40		2034
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	JOYNER LIBRARY TX-2		E OF JOYNER IN SVC YARD	1,500	KVA	1.00	\$154,981	1998	40		2038
TX21	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1500-2000 KVA)	JOYNER LIBRARY TX-1		E OF JOYNER IN SVC YARD	2,000	KVA	1.00	\$166,101	1995	40		2035
TX21	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1500-2000 KVA)	STUDENT CTR/DECK TX		W OF S.C. PKG DECK	2,000	KVA	1.00	\$166,101	2017	40		2057
TX21	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1500-2000 KVA)	FICKLEN TX-3		MURPHY GEN/TX YARD	2,000	KVA	1.00	\$166,101	2002	40		2042
TX21	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1500-2000 KVA)	COLLEGE HILL SUITES TX		NE OF CHS DORM	2,000	KVA	1.00	\$166,101	2005	40		2045
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	CCP#3 TX-1		N OF CCP#3	2,500	KVA	1.00	\$170,839	2016	40		2056
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	CCP#3 TX-2		N OF CCP#3	2,500	KVA	1.00	\$170,839	2020	40		2060
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	HOLLAND SPORTS COMPLEX TX-1		SVC YARD E OF TEAMS BLDG	2,500	KVA	1.00	\$170,839	2009	40		2049
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	LIFE SCIENCES TX		S OF 9TH ST IN TX YARD	2,500	KVA	1.00	\$170,839	2020	40		2060
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	S&T COOLING TOWER TX		SW OF S&T COOLING TWR	2,500	KVA	1.00	\$170,839	2001	40		2041
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	S&T CCP#1 TX-1		NE CORNER OF S&T	2,500	KVA	1.00	\$170,839	2005	40		2045

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TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2000 KVA)	S&T CCP#1 TX-2		NE CORNER OF S&T	2,500	KVA	1.00	\$170,839	2001	40		2041
UT02	UTILITY MANHOLE	MH-232		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-233		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-234		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-29		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-28		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-30		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-31		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-32		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-80		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-80A		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-33		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	X-EMH-114		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-46		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-47		SITE	1	EA	1.00	\$12,385	1968	100		2068

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UT02	UTILITY MANHOLE	X-EMH-215		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-7		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-6		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-5		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	X-EMH-48		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-T2		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-8		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-4		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-3		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-2		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-X-EMH		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-E-1		NEAR STUDENT CTR	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-210		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-201		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-202		SITE	1	EA	1.00	\$12,385	1968	100		2068

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UT02	UTILITY MANHOLE	MH-203		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-210		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-206		SITE	1	EA	1.00	\$12,385	2019	100		2119
UT02	UTILITY MANHOLE	MH-60		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-51		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-50		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-49B		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-49C		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-49C		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-61		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-62		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-63		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-64		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-65		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-66		SITE	1	EA	1.00	\$12,385	2015	100		2115

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UT02	UTILITY MANHOLE	MH-53		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-115		SITE	1	EA	1.35	\$16,720	1968	100	-38	2030
UT02	UTILITY MANHOLE	MH-44		SITE	1	EA	1.35	\$16,720	1968	100	-38	2030
UT02	UTILITY MANHOLE	MH-45		SITE	1	EA	1.35	\$16,720	1968	100	-38	2030
UT02	UTILITY MANHOLE	MH-105A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-104A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-205		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-204		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-54		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-55		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-56		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-57		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-58		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-40		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-41		SITE	1	EA	1.00	\$12,385	1968	100		2068

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-42		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-20		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-21		SITE	1	EA	1.00	\$12,385	2001	100		2101
UT02	UTILITY MANHOLE	MH-22		SITE	1	EA	1.00	\$12,385	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-23		SITE	1	EA	1.00	\$12,385	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-38		SITE	1	EA	1.00	\$12,385	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-37		SITE	1	EA	1.00	\$12,385	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-36		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-36E		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-52		SITE	1	EA	1.35	\$16,720	1968	100	-40	2028
UT02	UTILITY MANHOLE	MH-36C		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-38A		SITE	1	EA	1.00	\$12,385	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-111		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-36F		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-209		SITE	1	EA	1.00	\$12,385	2019	100		2119

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-212		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-213		SITE	1	EA	1.00	\$12,385	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-72		SITE	1	EA	1.35	\$16,720	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-73		SITE	1	EA	1.35	\$16,720	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-74		SITE	1	EA	1.35	\$16,720	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-75		SITE	1	EA	1.35	\$16,720	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-77		SITE	1	EA	1.35	\$16,720	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-36A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-36B		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-36D		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-214		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71B		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71C		SITE	1	EA	1.00	\$12,385	1968	100		2068

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-71D		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71E		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71F		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-71G		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-72		SITE	1	EA	1.00	\$12,385	1968	100	-45	2023
UT02	UTILITY MANHOLE	MH-95		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-96		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-97		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-98		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-99		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-100		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-101		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-102		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-103		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-104		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027



### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-105		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-106		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-107		SITE	1	EA	1.35	\$16,720	1968	100	-41	2027
UT02	UTILITY MANHOLE	MH-34		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-94		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-95		SITE	1	EA	1.35	\$16,720	1968	100	-42	2026
UT02	UTILITY MANHOLE	MH-14A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-13A		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-15		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-16		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-17		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-18		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-19		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-13		SITE	1	EA	1.00	\$12,385	1968	100		2068
UT02	UTILITY MANHOLE	MH-14		SITE	1	EA	1.00	\$12,385	1968	100		2068

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-25		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-1		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-1A		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-2		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-2A		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-2B		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-3		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-4		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-5		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-6		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-7		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-8		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-8A		SITE	1	EA	1.35	\$16,720	1968	100	-43	2025
UT02	UTILITY MANHOLE	MH-83		SITE	1	EA	1.00	\$12,385	2000	100		2100
UT02	UTILITY MANHOLE	MH-51P		SITE	1	EA	1.00	\$12,385	2015	100		2115

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-52P		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-53A		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-221		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-222		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-223		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-224		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-225		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-93B		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-226		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-227		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-228		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-85		SITE	1	EA	1.00	\$12,385	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-228A		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-229		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-83B		SITE	1	EA	1.00	\$12,385	1968	100		2068

### RENEWABLE COMPONENT INVENTORY

COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	QTY	UNITS	CPLX FACTR	TOTAL COST	IN STL DATE	USEFUL LIFE	USEFUL LIFE ADJ	REPL YEAR
UT02	UTILITY MANHOLE	MH-230		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-231		SITE	1	EA	1.00	\$12,385	2015	100		2115
UT02	UTILITY MANHOLE	MH-81		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-82		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-83		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-84		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-83A		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
UT02	UTILITY MANHOLE	MH-84A		SITE	1	EA	1.35	\$16,720	1968	100	-44	2024
<b>Grand Total:</b>								<b>\$27,218,546</b>				

## RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

DEFERRED RENEWAL									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-5		SE OF FLETCHER MUSIC	D5010	1	EA	\$86,879	DR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-21		MINGES SVC YARD	D5010	1	EA	\$86,879	DR
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	ERWIN TX		ERWIN EXTERIOR	D5010	150	KVA	\$44,170	DR
<b>TOTAL DEFERRED RENEWAL COST</b>								<b>\$217,928</b>	

2022									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22A		W OF SCOTT ON COLLEGE HILL	D5010	1	EA	\$86,879	2022
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22B		W OF SCOTT ON COLLEGE HILL	D5010	1	EA	\$86,879	2022
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	NRC FIELD HOUSE TX		W OF FIELD HOUSE	D5010	1,000	KVA	\$113,354	2022

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (300-500 KVA)	OLD CAFETERIA TX		W OF OLD CAF	D5010	500	KVA	\$78,297	2022
<b>2022 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$365,409</b>	

2023									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-1		NRC MAIN GATE	D5010	1	EA	\$89,486	2023
SG30	PAD-MOUNT SWITCH - 15 KV	SS-22D		W OF SCOTT ON COLLEGE HILL	D5010	1	EA	\$89,486	2023
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	WARD SPORTS TX		S OF WARD	D5010	750	KVA	\$87,566	2023
ED35	DUCT BANK	MH-72 TO MH-73		SITE	D5010	90	LF	\$10,766	2023
ED35	DUCT BANK	MH-73 TO MH-74		SITE	D5010	66	LF	\$7,895	2023
ED35	DUCT BANK	MH-74 TO MH-75		SITE	D5010	116	LF	\$13,877	2023
ED35	DUCT BANK	MH-75 TO MH-77		SITE	D5010	139	LF	\$16,628	2023
ED35	DUCT BANK	MH-28 TO MH-72		SITE	D5010	200	LF	\$23,925	2023

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	MH-20 TO MH-21		SITE	D5010	209	LF	\$25,002	2023
ED35	DUCT BANK	MH-21 TO MH-22		SITE	D5010	214	LF	\$25,600	2023
ED35	DUCT BANK	MH-22 TO MH-23		SITE	D5010	100	LF	\$11,963	2023
ED35	DUCT BANK	MH-23 TO MH-213		SITE	D5010	181	LF	\$21,652	2023
UT02	UTILITY MANHOLE	MH-22		SITE	G9010	1	EA	\$12,757	2023
UT02	UTILITY MANHOLE	MH-23		SITE	G9010	1	EA	\$12,757	2023
UT02	UTILITY MANHOLE	MH-213		SITE	G9010	1	EA	\$12,757	2023
UT02	UTILITY MANHOLE	MH-72		SITE	G9010	1	EA	\$17,222	2023
UT02	UTILITY MANHOLE	MH-73		SITE	G9010	1	EA	\$17,222	2023
UT02	UTILITY MANHOLE	MH-74		SITE	G9010	1	EA	\$17,222	2023
UT02	UTILITY MANHOLE	MH-75		SITE	G9010	1	EA	\$17,222	2023
UT02	UTILITY MANHOLE	MH-77		SITE	G9010	1	EA	\$17,222	2023
UT02	UTILITY MANHOLE	MH-72		SITE	G9010	1	EA	\$12,757	2023
<b>2023 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$560,980</b>	

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

2024									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (150-225 KVA)	HOLLAND SPORTS COMPLEX TX-3		W OF WHITE LOT	D5010	150	KVA	\$46,860	2024
ED35	DUCT BANK	MH-80 TO MH81		SITE	D5010	244	LF	\$30,064	2024
ED35	DUCT BANK	MH-81 TO MH82		SITE	D5010	209	LF	\$25,752	2024
ED35	DUCT BANK	MH-82 TO MH83A		SITE	D5010	329	LF	\$40,537	2024
ED35	DUCT BANK	MH-83A TO MH83		SITE	D5010	10	LF	\$1,232	2024
ED35	DUCT BANK	MH-83 TO MH84A		SITE	D5010	215	LF	\$26,491	2024
ED35	DUCT BANK	MH-84A TO MH84		SITE	D5010	16	LF	\$1,971	2024
ED35	DUCT BANK	MH-84 TO MH85		SITE	D5010	235	LF	\$28,955	2024
ED35	DUCT BANK	MH-38 TO MH-111		SITE	D5010	41	LF	\$5,052	2024
ED35	DUCT BANK	MH-111 TO MH-209		SITE	D5010	133	LF	\$16,387	2024
ED35	DUCT BANK	MH-111 TO MH-112		SITE	D5010	175	LF	\$21,562	2024



### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	MH-38A TO MH-38		SITE	D5010	50	LF	\$6,161	2024
ED35	DUCT BANK	MH-36 TO MH-36C		SITE	D5010	165	LF	\$20,330	2024
ED35	DUCT BANK	MH-36C TO MH-37		SITE	D5010	165	LF	\$20,330	2024
ED35	DUCT BANK	MH-37 TO MH-38A		SITE	D5010	163	LF	\$20,084	2024
UT02	UTILITY MANHOLE	MH-38		SITE	G9010	1	EA	\$13,140	2024
UT02	UTILITY MANHOLE	MH-37		SITE	G9010	1	EA	\$13,140	2024
UT02	UTILITY MANHOLE	MH-36		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-36C		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-38A		SITE	G9010	1	EA	\$13,140	2024
UT02	UTILITY MANHOLE	MH-111		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-85		SITE	G9010	1	EA	\$13,140	2024
UT02	UTILITY MANHOLE	MH-81		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-82		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-83		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-84		SITE	G9010	1	EA	\$17,738	2024

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

UT02	UTILITY MANHOLE	MH-83A		SITE	G9010	1	EA	\$17,738	2024
UT02	UTILITY MANHOLE	MH-84A		SITE	G9010	1	EA	\$17,738	2024
<b>2024 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$523,974</b>	

2025									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-2		THSC SERVICE YARD	D5010	1	EA	\$94,935	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-9		NW OF S&T COOLING TWR	D5010	1	EA	\$94,935	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-9B		NW OF S&T COOLING TWR	D5010	1	EA	\$94,935	2025
SG30	PAD-MOUNT SWITCH - 15 KV	SS-21B		MINGES CHILLER YARD	D5010	1	EA	\$94,935	2025
ED35	DUCT BANK	MH-25 TO MH-1		SITE	D5010	214	LF	\$27,159	2025
ED35	DUCT BANK	MH-1 TO MH-2		SITE	D5010	50	LF	\$6,346	2025
ED35	DUCT BANK	SWITCHGEAR-1 TO MH-1A		SITE	D5010	87	LF	\$11,041	2025

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2A		SITE	D5010	97	LF	\$12,310	2025
ED35	DUCT BANK	SWITCHGEAR-1 TO MH-2B		SITE	D5010	92	LF	\$11,676	2025
ED35	DUCT BANK	MH-2 TO MH-3		SITE	D5010	75	LF	\$9,518	2025
ED35	DUCT BANK	MH-3 TO MH-4		SITE	D5010	240	LF	\$30,458	2025
ED35	DUCT BANK	MH-4 TO MH-5		SITE	D5010	254	LF	\$32,235	2025
ED35	DUCT BANK	MH-5 TO MH-6		SITE	D5010	271	LF	\$34,393	2025
ED35	DUCT BANK	MH-6 TO MH-7		SITE	D5010	202	LF	\$25,636	2025
ED35	DUCT BANK	MH-7 TO MH-8		SITE	D5010	205	LF	\$26,017	2025
ED35	DUCT BANK	MH-8 TO MH-8A		SITE	D5010	101	LF	\$12,818	2025
UT02	UTILITY MANHOLE	MH-25		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-1		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-1A		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-2		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-2A		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-2B		SITE	G9010	1	EA	\$18,271	2025

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

UT02	UTILITY MANHOLE	MH-3		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-4		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-5		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-6		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-7		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-8		SITE	G9010	1	EA	\$18,271	2025
UT02	UTILITY MANHOLE	MH-8A		SITE	G9010	1	EA	\$18,271	2025
<b>2025 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$856,865</b>	

2026									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-201		SE OF SRC	D5010	1	EA	\$97,783	2026
ED35	DUCT BANK	MH-29 TO MH-30		SITE	D5010	232	LF	\$30,326	2026
ED35	DUCT BANK	MH-30 TO MH-31		SITE	D5010	209	LF	\$27,320	2026

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	MH-31 TO MH-32		SITE	D5010	113	LF	\$14,771	2026
ED35	DUCT BANK	MH-32 TO MH-33		SITE	D5010	136	LF	\$17,778	2026
ED35	DUCT BANK	MH-33 TO MH-34		SITE	D5010	200	LF	\$26,144	2026
ED35	DUCT BANK	MH-34 TO MH-94		SITE	D5010	355	LF	\$46,405	2026
ED35	DUCT BANK	MH-94 TO MH-95		SITE	D5010	214	LF	\$27,974	2026
UT02	UTILITY MANHOLE	MH-34		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-94		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-95		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-30		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-31		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-32		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-80		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-80A		SITE	G9010	1	EA	\$18,819	2026
UT02	UTILITY MANHOLE	MH-33		SITE	G9010	1	EA	\$18,819	2026

**2026 PROJECTED COMPONENT REPLACEMENT COST**

**\$457,868**

## RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

2027									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-3B		N OF FICKLEN	D5010	1	EA	\$100,717	2027
ED35	DUCT BANK	MH-95 TO MH-96		SITE	D5010	267	LF	\$35,949	2027
ED35	DUCT BANK	MH-96 TO MH-97		SITE	D5010	254	LF	\$34,198	2027
ED35	DUCT BANK	MH-97 TO MH-99		SITE	D5010	358	LF	\$48,201	2027
ED35	DUCT BANK	MH-99 TO MH-100		SITE	D5010	325	LF	\$43,758	2027
ED35	DUCT BANK	MH-100 TO MH-101		SITE	D5010	315	LF	\$42,411	2027
ED35	DUCT BANK	MH-101 TO MH-102		SITE	D5010	319	LF	\$42,950	2027
ED35	DUCT BANK	MH-102 TO MH-103		SITE	D5010	290	LF	\$39,045	2027
ED35	DUCT BANK	MH-103 TO MH-104		SITE	D5010	283	LF	\$38,103	2027
ED35	DUCT BANK	MH-104 TO MH-105		SITE	D5010	300	LF	\$40,392	2027

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	MH-105 TO MH-106		SITE	D5010	293	LF	\$39,449	2027
ED35	DUCT BANK	MH-106 TO MH-107		SITE	D5010	266	LF	\$35,814	2027
ED35	DUCT BANK	MH-107 TO SS-12W		SITE	D5010	175	LF	\$23,562	2027
ED35	DUCT BANK	MH-104 TO MH-104A		SITE	D5010	29	LF	\$3,905	2027
UT02	UTILITY MANHOLE	MH-95		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-96		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-97		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-98		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-99		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-100		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-101		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-102		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-103		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-104		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-105		SITE	G9010	1	EA	\$19,383	2027

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

UT02	UTILITY MANHOLE	MH-106		SITE	G9010	1	EA	\$19,383	2027
UT02	UTILITY MANHOLE	MH-107		SITE	G9010	1	EA	\$19,383	2027
<b>2027 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$820,435</b>	

2028									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1000-1500 KVA)	MENDENHALL TX		S OF MENDENHALL	D5010	1,500	KVA	\$185,055	2028
ED35	DUCT BANK	MH-53 TO SS-28		SITE	D5010	212	LF	\$29,400	2028
ED35	DUCT BANK	MH-49B TO SS-28		SITE	D5010	50	LF	\$6,934	2028
ED35	DUCT BANK	MH-53 TO MH-61		SITE	D5010	201	LF	\$27,874	2028
ED35	DUCT BANK	MH-61 TO MH-62		SITE	D5010	135	LF	\$18,722	2028
ED35	DUCT BANK	MH-62 TO MH-63		SITE	D5010	137	LF	\$18,999	2028
ED35	DUCT BANK	MH-63 TO MH-64		SITE	D5010	147	LF	\$20,386	2028
ED35	DUCT BANK	MH-64 TO MH-65		SITE	D5010	163	LF	\$22,605	2028



### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

ED35	DUCT BANK	MH-65 TO MH-66		SITE	D5010	184	LF	\$25,517	2028
ED35	DUCT BANK	MH-53 TO MH-54		SITE	D5010	309	LF	\$42,852	2028
ED35	DUCT BANK	MH-54 TO MH-55		SITE	D5010	183	LF	\$25,378	2028
ED35	DUCT BANK	MH-55 TO MH-56		SITE	D5010	211	LF	\$29,261	2028
ED35	DUCT BANK	MH-56 TO MH-57		SITE	D5010	184	LF	\$25,517	2028
ED35	DUCT BANK	MH-57 TO MH-58		SITE	D5010	202	LF	\$28,013	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-1 POD-1		FICKLEN DRIVE	D5010	1	EA	\$94,090	2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-2		FICKLEN DRIVE	D5010	1	EA	\$129,961	2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-3		FICKLEN DRIVE	D5010	1	EA	\$129,961	2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-4		FICKLEN DRIVE	D5010	1	EA	\$129,961	2028
SG36	LOAD INTERRUPTER SWITCH, FUSED - 15 KV	SWITCHGEAR-1 POD-5		FICKLEN DRIVE	D5010	1	EA	\$129,961	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-1 POD-6		FICKLEN DRIVE	D5010	1	EA	\$94,090	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-1		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-2		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-3		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-4		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-5		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028
SG35	LOAD INTERRUPTER SWITCH - 15 KV	SWITCHGEAR-3 POD-6		LIBRARY DRIVE	D5010	1	EA	\$94,090	2028
UT02	UTILITY MANHOLE	MH-54		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-55		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-56		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-57		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-58		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-50		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-61		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-62		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-63		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-64		SITE	G9010	1	EA	\$19,965	2028

### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

UT02	UTILITY MANHOLE	MH-65		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-53		SITE	G9010	1	EA	\$19,965	2028
UT02	UTILITY MANHOLE	MH-52		SITE	G9010	1	EA	\$19,965	2028
<b>2028 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$2,038,622</b>	

2029									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-31A		S OF JOYNER CLOCK TWR	D5010	1	EA	\$106,850	2029
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (750-1000 KVA)	SLAY/UMSTEAD/B43 TX		SVC YARD N OF UMSTEAD	D5010	750	KVA	\$104,558	2029
<b>2029 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$211,409</b>	

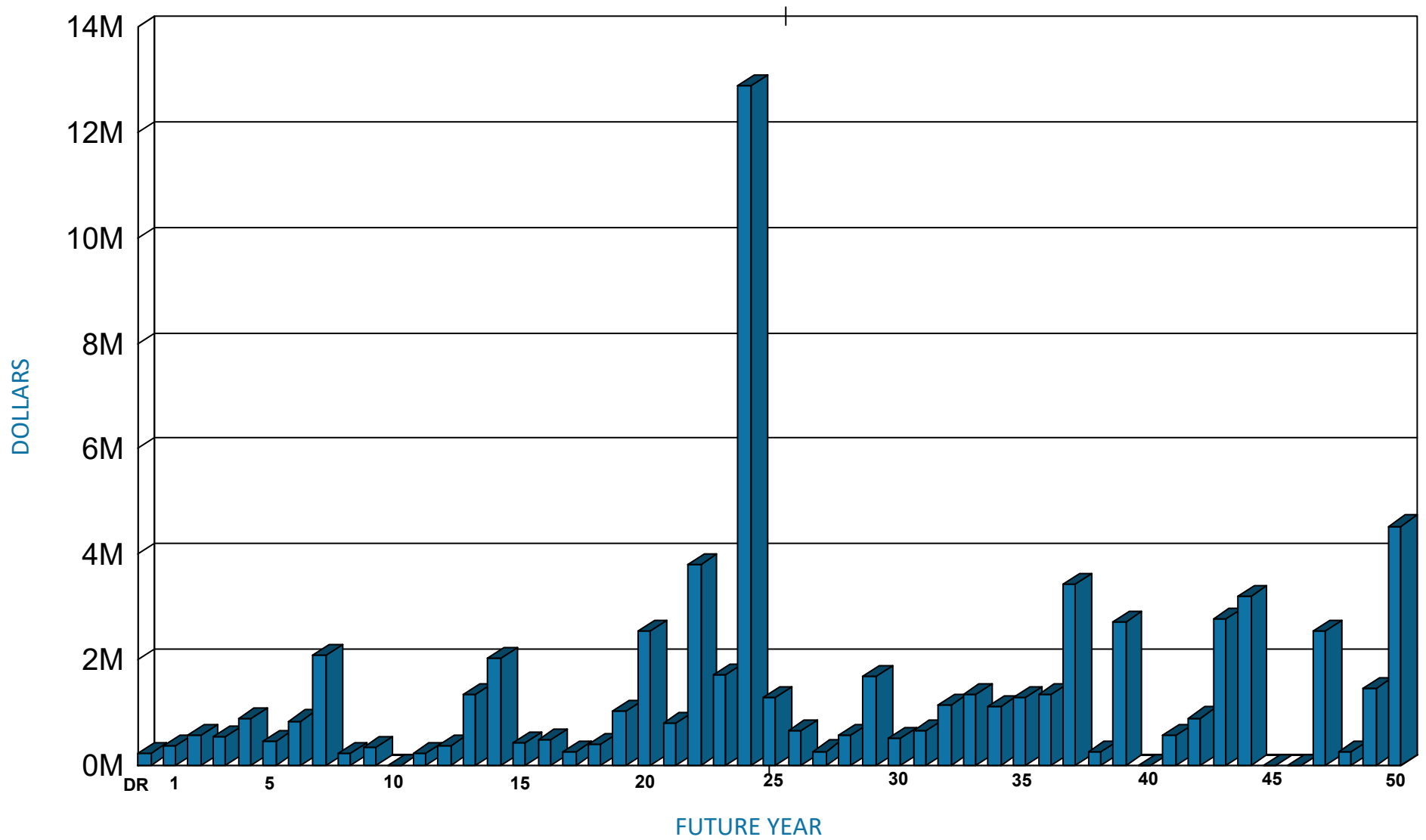
### RECURRING NEEDS BY YEAR

*All costs shown as Future Value using a 3% average inflation rate*

2030									
COMP CODE	COMPONENT DESCRIPTION	IDENTIFIER	CUSTOMER ID	LOCATION	UNI-FORMAT	QTY	UNITS	REPLACEMENT COST	YEAR
SG30	PAD-MOUNT SWITCH - 15 KV	SS-34		W OF CHRISTENBURY	D5010	1	EA	\$110,056	2030
SG30	PAD-MOUNT SWITCH - 15 KV	SS-203		SW OF JENKINS ART	D5010	1	EA	\$110,056	2030
ED35	DUCT BANK	MH-115 TO MH-44		SITE	D5010	195	LF	\$28,689	2030
ED35	DUCT BANK	MH-44 TO MH-45		SITE	D5010	204	LF	\$30,013	2030
UT02	UTILITY MANHOLE	MH-115		SITE	G9010	1	EA	\$21,181	2030
UT02	UTILITY MANHOLE	MH-44		SITE	G9010	1	EA	\$21,181	2030
UT02	UTILITY MANHOLE	MH-45		SITE	G9010	1	EA	\$21,181	2030
<b>2030 PROJECTED COMPONENT REPLACEMENT COST</b>								<b>\$342,356</b>	

*No Projected Component Replacement Cost for Asset No. MELEC for 2031*

### RECURRING COMPONENT EXPENDITURE PROJECTIONS



Average Annual Renewal Cost per SF \$627,233.7



# Section 5







MELEC001e 3/24/2022  
Live front sectionalizing switch SS-9B  
S&T Cooling Tower, exterior



MELEC002e 3/24/2022  
Live front sectionalizing switch SS-9  
S&T Cooling Tower, exterior



MELEC003e 3/24/2022  
2,500 kVA oil-filled transformer  
S&T Cooling Tower, exterior



MELEC004e 3/24/2022  
Dead front sectionalizing switches SS-30 and SS-38  
S&T Cooling Tower, exterior



MELEC005e 3/24/2022  
Switchgear-1, Pods 1 through 6  
Ficklen Drive



MELEC006e 3/24/2022  
Overview of GUCO substation  
Ficklen Drive



MELECO07e 3/24/2022  
Overview of GUCO substation  
Ficklen Drive



MELECO08e 3/24/2022  
Overview of GUCO substation  
Ficklen Drive



MELECO09e 3/24/2022  
Switchgear-3, Pods 1 through 6  
Library Drive



MELECO10e 3/24/2022  
Erwin transformer  
Erwin, exterior



MELECO11e 3/24/2022  
Erwin transformer  
Erwin, exterior



MELECO12e 3/24/2022  
Live front sectionalizing switch SS-203  
Jenkins Art, exterior



MELEC013e 3/24/2022  
Live front sectionalizing switch SS-5  
Fletcher Music, exterior



MELEC014e 3/24/2022  
Live front sectionalizing switch SS-34  
Christenbury, exterior



MELEC015e 3/24/2022  
Live front sectionalizing switch SS-31A  
Joyner Clock Tower, exterior



MELEC016e 3/24/2022  
Live front sectionalizing switch SS-2  
THSC, exterior



MELEC017e 3/24/2022  
Live front sectionalizing switch SS-22B  
Jones, exterior



MELEC018e 3/24/2022  
Live front sectionalizing switch SS-21B  
Minges, exterior



MELEC019e 3/24/2022  
Live front sectionalizing switch SS-21  
Minges, exterior



MELEC020e 3/24/2022  
Live front sectionalizing switch SS-22A  
Scott, exterior



MELEC021e 3/24/2022  
Live front sectionalizing switch SS-22D  
Scott, exterior



MELEC022e 3/24/2022  
NRC Fieldhouse ,1000 kVA transformer interior  
NRC Fieldhouse, exterior



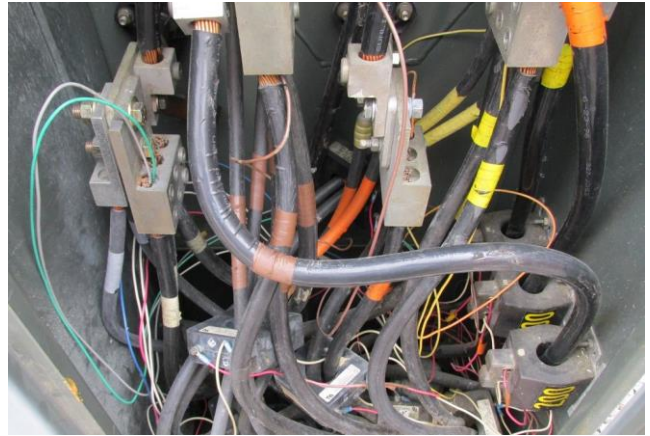
MELEC023e 3/24/2022  
NRC Fieldhouse 1000 kVA transformer  
NRC Fieldhouse, exterior



MELEC024e 3/24/2022  
Old Cafeteria 500 kVA transformer  
Old Cafeteria, exterior



MELEC025e 3/24/2022  
Old Cafeteria 500 kVA transformer interior  
Old Cafeteria, exterior



MELEC026e 3/24/2022  
B43, Slay, Umstead 750 kVA transformer interior  
Umstead, exterior service yard



MELEC027e 3/24/2022  
B43, Slay, Umstead 750 kVA transformer  
Umstead, exterior service yard



MELEC028e 3/24/2022  
Ward 750 kVA transformer  
Ward, exterior

