

Capital Improvement Plan
City of Corpus Christi, Texas

2019 *thru* 2023

Project # 18180T
Project Name Fire St.1 Emergency Generator



Type Reconditioning-Asset Longevit **Department** Fire Department
Useful Life 25 years **Contact** Fire Chief
Category Building Rehabilitation **Priority** 2 Critical- Asset Condition\longe

Status Active

Description

Replace and upgrade the current stand-by electrical generator distribution system in order to include additional building loads such as HVAC at Fire Station 1. The existing stand-by generator is not of sufficient size, rated in kVA, to provide emergency power to all preferred loads within the fire station. This includes the HVAC system. The current automatic transfer switch is size d in accordance with the existing, and undersized, stand-by generator. The current in service equipment is both near end of service life as well as undersized for the preferred additional loads which includes the HVAC equipment. Note: The existing unit which still works and has considerable remaining service life, would be relocated to Old Station 5/ Hazmat Central to replace its non-functioning generator.

Justification

The ambulances carry medications that need an air-cooled environment or the medications will be ruined. These ambulances need to be plugged into electrical source while unit is in the station. These supplies along with other medical supplies are also keep inside the station in the storage lockers.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Rehab			65,961			65,961
Inspection			2,638			2,638
Design	7,756					7,256
Contingency			3,096			3,096
Engineering Svc			2,000			2,000
Admin Reimbursement			1,000			1,000
Total	7,756		74,695			82,451

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bond 2018	7,756		74,695			82,451
Total	7,756		74,695			82,451

Budget Impact/Other

There is no projected operational impact with this project at this time. A reassessment will be done upon completion of project to determine on-going or maintenance costs.

Capital Improvement Plan
City of Corpus Christi, Texas

2019 *thru* 2023

Project # 18180H
Project Name Fire Station #7 Emergency Generator

Type Equipment
Useful Life 25 years
Category Capital Equipment/System

Department Fire Department
Contact Fire Chief
Priority 1 Critical-Health & Safety



Status Active

Description

Replace and upgrade the current stand-by electrical generator distribution system including the automatic transfer switch in order to include additional building loads such as HVAC at Fire Station 7. The existing stand-by generator is not of sufficient size, rated in kVA, to provide emergency power to all preferred loads within the fire station. This includes the HVAC system. The current automatic transfer switch is sized in accordance with the existing, and undersized, stand-by generator. The current in service equipment is both near end of service life as well as undersized for the preferred additional loads which includes the HVAC equipment.

Justification

Maintain the Fire Station to provide an adequate facility with the proper power needed to house firefighters, equipment, and medical supplies in order to provide the necessary emergency response to the citizens and public while there is no electrical power at the fire station. The fire stations are 24/7/365 facilities that firefighters respond from. Ambulances and fire trucks require to be connected to electrical power while the engine is not running inside the stations. The ambulances must be plugged in to run the a/c unit due to the storage of medications on the unit.

Expenditures	2019	2020	2021	2022	2023	Total
Inspection			2,312			2,312
Design		6,357				6,357
Contingency			5,780			5,780
Capital Equipment			56,792			56,792
Engineering Svc		200	800			1,000
Total		6,557	65,684			72,241

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bond 2018		6,557	65,684			72,241
Total		6,557	65,684			72,241

Budget Impact/Other

There is no projected operational impact with this project at this time. A reassessment will be done upon completion of project to determine on-going or maintenance costs.

Capital Improvement Plan
City of Corpus Christi, Texas

2019 *thru* 2023

Project # 18180I
Project Name Fire St.8 Emergency Generator



Type Reconditioning-Asset Longevit **Department** Fire Department
Useful Life 25 years **Contact** Fire Chief
Category Building Rehabilitation **Priority** 2 Critical- Asset Condition\longe

Status Active

Description

Replace and upgrade the current stand-by electrical generator distribution system including the automatic transfer switch in order to include additional building loads such as HVAC at Fire Station 8. The fire stations are 24/7/365 facilities that firefighters respond from. Ambulances and fire trucks require to be connected to electrical power while the engine is not running inside the stations. The ambulances must be plugged in to run the air due to the storage of medications on the unit. The stations need to have the ale connected to emergency power to maintain adequate temperatures inside the stations for medical supplies and the proper rehabilitation of firefighters between emergency calls. Fire stations also become hubs for other city employees, PD and utilities, during disasters and other emergency situations.

Justification

Maintain the Fire Station to provide an adequate facility with the proper power needed to house firefighters, equipment, and medical supplies in order to provide the necessary emergency response to the citizens and public while there is no electrical power at the fire station. The ambulances carry medications that need to in an air-cooled environment or the medications will be ruined. These supplies along with other medical supplies are also keep inside the station in the storage lockers. Firefighters and employees will not be able to rehab properly between emergency calls and other work duties which can lead to injury and illness. The existing stand-by generator is not of sufficient size, rated in kVA, to provide emergency power to all preferred loads within the fire station. This includes the HVAC system. The current automatic transfer switch is sized in accordance with the existing, and undersized, stand-by generator. The current in service equipment is both near end of service life as well as undersized for the preferred additional loads which includes the HVAC equipment.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Rehab			51,520			51,520
Inspection			2,061			2,061
Design		5,668				5,668
Contingency			4,152			4,152
Engineering Svc		200	800			1,000
Total		5,868	58,533			64,401

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bond 2018		5,868	58,533			64,401
Total		5,868	58,533			64,401

Budget Impact/Other

There is no projected operational impact with this project at this time. A reassessment will be done upon completion of project to determine on-going or maintenance costs.

Capital Improvement Plan
City of Corpus Christi, Texas

2019 *thru* 2023

Project # 18180J
Project Name Fire St.9 Emergency Generator /HVAC upgrades



Type Reconditioning-Asset Longevit **Department** Fire Department
Useful Life 25 years **Contact** Fire Chief
Category Building Rehabilitation **Priority** 2 Critical- Asset Condition\longe

Status Active

Description

Replace and upgrade the current stand-by electrical generator distribution system in order to include additional building loads such as HVAC at Fire Station 8. The building will require equipment upgrades and/or alterations to HVAC systems in order to have all systems functions efficiently and meet current code requirements. Replace the split unit air conditioner. The HVAC closet layout and connections to ductwork need to be redesigned in order to allow for future maintenance and service. HVAC technician will need to investigate inside of all ductwork to determine if it has deteriorated and in need of replacement or if it can be professional cleaned. If needed, replace all ductwork and registers. Remove window unit and seal opening properly. Replace both bathroom exhaust fans. Replace and upgrade the current stand-by electrical generator distribution system including the automatic transfer switch in order to include additional building loads such as HVAC at Fire Station 9.

Justification

Maintain the Fire Station to provide an adequate facility with the proper power needed to house firefighters, equipment, and medical supplies in order to provide the necessary emergency response to the citizens and public while there is no electrical power at the fire station. The ambulances carry medications that need an air-cooled environment or the medications will be ruined. These supplies along with other medical supplies are also keep inside the station in the storage lockers.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Rehab			82,557			82,557
Inspection			3,302			3,302
Design		9,082				9,082
Contingency			5,256			5,256
Engineering Svc		1,000	2,000			3,000
Total		10,082	93,115			103,197

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bond 2018		10,082	93,115			103,197
Total		10,082	93,115			103,197

Budget Impact/Other

There is no projected operational impact with this project at this time. A reassessment will be done upon completion of project to determine on-going or maintenance costs.

Capital Improvement Plan
City of Corpus Christi, Texas

2019 *thru* 2023

Project # 18180MA
Project Name Fire St.12 Emergency Generator

Type Equipment
Useful Life 10 years
Category Capital Equipment/System
Department Fire Department
Contact Fire Chief
Priority 1 Critical-Health & Safety



Status Active

Description

Project will consist of replacement and upgrade to the current stand-by electrical generator distribution system including the automatic transfer switch in order to include additional building loads such as HVAC at Fire Station 12. Replace and upgrade the current stand-by electrical generator distribution system in order to include additional building loads such as HVAC at Fire Station 12 .The fire stations are 24/7 /365 facilities that firefighters respond from. The ambulances must be plugged in to maintain adequate temperatures inside the stations for medical supplies and the proper rehabilitation of firefighters between emergency calls.

Justification

Maintain the Fire Station to provide an adequate facility with the proper power needed to house firefighters, equipment, hazmat supplies, and medical supplies in order to provide the necessary emergency response to the citizens and public while there is no electrical power at the fire station. The existing stand-by generator is not of sufficient size.

Expenditures	2019	2020	2021	2022	2023	Total
Construction/Rehab			56,500			56,500
Inspection			2,266			2,266
Design		6,215				6,215
Contingency			5,656			5,656
Total		6,215	64,422			70,637

Funding Sources	2019	2020	2021	2022	2023	Total
G.O. Bond 2018		6,215	64,422			70,637
Total		6,215	64,422			70,637

Budget Impact/Other

There is no projected operational impact with this project at this time. A reassessment will be done upon completion of project to determine on-going or maintenance costs.