

APPENDIX E: Project Need and Description

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Name	Palermo – Wyandotte 115 kV Line Section Reconductoring Project
Brief Description	Reconductor the Wyandotte – Pole 003/025 115 kV line section (~0.05 miles) with larger conductor and remove any limiting element.
Type	Reliability
Objectives	To mitigate P0 overload on the Palermo – Wyandotte 115 kV line
Project Need Date	2022
Expected In-service Date	May 2023
Interim Solution	Operation solution
Project Cost	\$0.125M - \$0.250M
Alternatives Considered but Rejected	Rerrating the transmission line

Name	Manteca #1 60 kV Line Section Reconductoring Project
Brief Description	Reconductor ~1.13 miles of the Manteca #1 60 kV Line with larger conductor and remove any limiting component as necessary.
Type	Reliability
Objectives	To mitigate P0 overload on the Manteca #1 60 kV line
Project Need Date	2022
Expected In-service Date	May 2024
Interim Solution	Operation solution
Project Cost	\$1.4M - \$2.8M
Alternatives Considered but Rejected	<ul style="list-style-type: none"> - Rerating the transmission line - 10 Mvar capacitor bank at Westley - Energy storage (BESS)

Name	Kasson – Kasson Junction 1 115 kV Line Section Reconductoring Project
Brief Description	Reconductor the Kasson – Kasson Junction 1 (~0.08 miles) 115 kV line section with larger conductor and replace structure, if necessary.
Type	Reliability
Objectives	To mitigate P1 overload on the Shulte – Kasson – Manteca 115 kV line
Project Need Date	2022
Expected In-service Date	May 2023
Interim Solution	Operation solution
Project Cost	\$0.25M - \$0.5M
Alternatives Considered but Rejected	Rerrating the transmission line