

## **APPENDIX E: Project Need and Description**

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

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

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