



Rochelle Municipal Utilities Water/Water Reclamation

To: David Plyman

From: Kathy Cooper

Date: September 5, 2012

Re: Arc Flash Studies

A 2006 OSHA regulation required a study of all electrical panels to determine the potential for an arc flash explosion. Siemens performed the studies for the Water and Water Reclamation Divisions, and Engel Electric from Sterling was hired to install the OSHA required hazard and PPE (Personal Protective Equipment) labeling following the initial study. As a follow up to the labeling of the panels, Engel made the recommendation that additional studies be performed to make the panels safer to work on by the installation of disconnects in front of the panels. Siemens performed the additional studies, and they documented that the installation of isolation breakers at each of the wells and ahead of the main breaker at the treatment plant would greatly improve the safety for employees working on the panels. The 2012-13 FY budgets for the Water and Water Reclamation Divisions included \$36,000 and \$50,000 respectively for the installation of the breakers.

The Siemen's study was provided to three electrical contractors, and they were asked to submit a proposal to install the 600 and 2000 amp instantaneous breakers. The requests were sent to Mascal Electric, DeKalb; Morse Electric, Freeport; and Engel Electric, Sterling. Morse did not respond to the request. The proposals from the other two electrical contractors were:

	<u>Wells</u>	<u>Treatment Plant</u>
Engel Electric	\$33,200	\$43,639
Mascal	\$38,672	\$50,768

I recommend that we accept the proposal from Engel Electric.