

From: [Him, Efrain](#)
To: [Susan Blevins](#)
Cc: [Cassie Stephens](#); [Lisa Ray](#); [Vasquez, Javier](#)
Subject: FW: maintenance program and warranty for generator
Date: Wednesday, January 11, 2023 2:56:22 PM
Attachments: [Generators of Houston- Extended Warranty Offer .msg](#)
[Generac Product Activation.msg](#)
[Preventative Maintenance and Load Bank.msg](#)
Importance: High

Susan,

As requested, I have reviewed the attached documentation regarding warranty and preventative maintenance options for the new Lift Station Emergency Generator and offer the following comments and recommendations:

1. Manufacturer's Warranty Option:
 - a. Costs per year for 5, 7 and 10 Years Comprehensive Extended Warranty (CEW) is \$254.40, \$354.43 and \$407.85, respectively (excluding taxes).
 - b. Considering this generator is designated for a critical facility (i.e. lift station), and the service call rates (ranging from \$450.00 to \$350.00 for one-hour + \$225.00 to \$150.00 for each additional hour) listed under the Preventive Maintenance Service Agreement, my recommendation would be for the City to obtain the 10 Years CEW. I did not see the warranty terms/details in the e-mails; however, the 10 Year CEW annual cost of \$407.85 is nothing compared to what the City will have to pay for repairs or just service calls on their own.
2. Preventative Maintenance:
 - a. For Routine Maintenance, I would recommend the Quarterly option (\$1,388.92 per year) but if cost is an issue, at least the Semi-Annual option (\$806.82 per year).
 - b. For Load Bank Test, I would recommend the Level 1, (1) Annual 2 hr Load Bank Test (620.00 per year) just to make sure the generator is not degrading and is able to sustain the loads in the event of an emergency.
 - c. I would also recommend the Level 1 Monthly Transfer Test (\$275 per month?) just to make sure the generator automatic transfer switch is operating properly when needed; however, maybe twice a year instead of all twelve (12) months, if this option is available. Please check if the \$275 for this test is per month or per year; I believe is per month or test.

Let me know if you have any other questions.

Regards,

Efrain A. Him, P.E.
Senior Project Manager
