This is a written response to Dave Lockie’s request for an itinerary/strategy to complete his project: Early warning rising cooler temperatures via text messaging.

The current hardware design is completed and has been tested providing temperatures from four sensors. The temperatures are communicated wirelessly onto an existing network, IEEE802.11, like the intended network, Mountain Arts Pottery. The hardware design is a web server and can display the temperatures through a web browser.

Currently, the test to communicate outside the network via simple mail transfer protocol, SMTP, has failed. This is the last function in the system which needs to operate in order to communicate rising temperatures to a specific cell phone. This function has been demonstrated as operable in previous hardware and only requires further investigation.

Investigation of the SMTP failure will require packet analysis of the Transmission Control Protocol Internet Protocol, TCP/IP, determining why the request for SMTP fails. During testing, the packets are received wirelessly while the transmissions are occurring and saved into a file. The file is decoded and viewed with common software to see text of the transmissions and messaging that describes failures.

The funds, $500.00, requested 7/13/15 from Dave at Mountain Arts Pottery will be used toward the resources over the next 30-60 days to determine the failure of the SMTP and provide the solution. The device will then be implemented within Mountain Arts Pottery.

Cy Drollinger 07/14/2015

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