



iSenseCloud, Inc.

280 N. Jackson Ave, Suite C
San Jose, CA 95116
www.isensecloud.com

April 17, 2019

Dr. Jason Philtron
Guidedwave, Inc.
450 Rolling Ridge Drive
Bellefonte, PA 16823

Subject: ~~Phase II SBIR N182-125: Fiber Optic Condition Based Management System~~

Dear Dr.Philtron,

iSenseCloud (iSC) is very interested in and would like to express its support for your proposal and the technology you propose to develop if awarded an ~~SBIR Phase II~~ contract under "~~SBIR N182-125: Fiber Optic Condition Based Management System~~"

iSCviews the development of a fiber optic structural health monitoring system based on your ultrasonic guided wave interrogation platform as an important step to achieving a cost-effective solution to reducing the maintenance cost of advanced ~~structures~~ structures. There is a need for an on-board monitoring system that captures the temperature, loads, and damages that contribute to fatigue, degradation of components, and reduced useful life of assets for maintenance planning and condition based maintenance. Fiber optic sensors have shown to withstand the harsh environments and therefore are a candidate for monitoring the health of structural components. We are currently manufacturing and commercializing custom fiber optic signal conditioners that could be readily integrated with conventional acoustic emission and ultrasonic guided wave systems and platforms.

In the event Guidedwave is awarded an ~~SBIR Phase II~~ contract, iSC would be willing to collaborate, to provide a custom solution for the fiber optic acoustic emission technology and other developments of mutual interest. For this effort the iSC team will be available up to 25 hours per week (at a labor rate of \$ ~~100-200/hour~~, depending on the complexity and nature of the work) for Guidedwave support. Our areas of involvement may include software algorithm development, electronic, photonics, and opto-mechanical design, instrument testing, and other design and verification tasks.

Sincerely,

A handwritten signature in black ink, appearing to read "Dien Nguyen".

Dien Nguyen, Ph.D.
CTO
iSenseCloud, Inc.