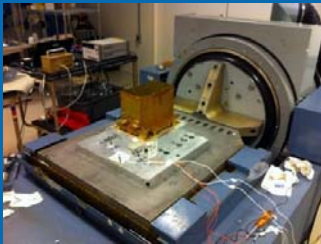




ZIN Technologies

Test Services

Test Services



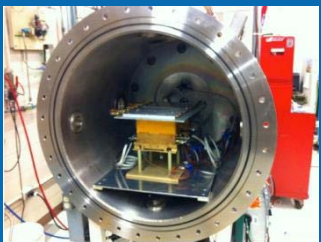
Y leudwlrq#Wlrwlbj



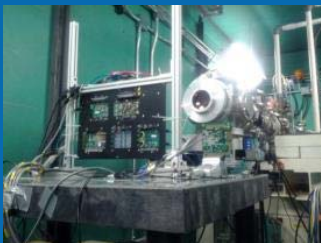
HP F



Vkrfn



Wkchp dcl df



Udgjwlrq



ZIN is experienced at developing hardware that operates in unpressurized, pressurized or vacuum environments. Our QMS contains the environmental test requirements defined by NASA, AIAA, IEEE, FAA HF, MIL, RTCA, SAE and SME handbooks and standards including thermal, vacuum, vibration, strength, EMI, acoustic, atomic oxygen, and radiation.

ZIN has developed an approach using testing, analysis, and modeling to help mitigate the effects of the radiation environment by assisting in the selection, screening, and shielding of electronic commercial or industrial grade components.

Nominal and off-nominal support is provided, off-nominal support products are nonconformance reports and root cause analysis. Non-destructive evaluation (NDE) requirements are performed by approved suppliers. In addition, ZIN has experience with power electronics circuits for mission and life critical spaceflight applications. Test plans for NDE draws on standards from ASTM, NIST, DOD, and NASA. All fracture critical parts that cannot be proof tested will be tested by NDE to screen for cracks.

- ZIN generates interface agreements, control drawings, and control documents used for test requirements.
- Zin provides test plan generation, test procedure generation, serving as test conductors, data analysis and reporting.
- Vibration Testing:
 - Sweep
 - Sine Vibe
 - Random Vibe
- EMC
 - Conducted Emissions
 - CE01
 - CE03
 - CE07
 - Radiated Emissions
 - RE01
 - RE02
 - Conducted Susceptibility
 - CS01
 - CS02
 - CS06
 - Radiated Susceptibility
- Shock
- Thermal VAC
- Radiation



ZIN Technologies Inc.

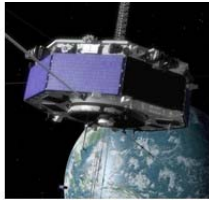
6745 Engle Road | Middleburg Heights, Oh 44130
Phone: 440.625-2223 | johansonm@zin-tech.com | www.ZIN-Tech.com

Founded in 1957, ZIN provides multidisciplinary engineering services to NASA and the aerospace industry and has managed the development of space flight and ground system hardware (aerospace/space systems) from formulation, design, and development through to fabrication, integration, testing, verification, and mission operations.

Our experience includes the development and validation of new technologies (sensors, inertial navigational measurement units (IMUs), composites, advanced acoustic resonant attenuation, optics, power, additive manufacturing and wireless/RF), ISS research investigations, space launch systems (Orion, commercial crew/resupply), satellite (IMU) accelerometer systems, and space based human research projects enabling future space and science missions.



Focus on Quality - Certified and Compliant with Industry and Government Quality Standards



ZIN Technologies, Inc. is an experienced developer of ground and flight systems for manned and unmanned aerospace applications. Marking history for almost five decades, we have provided integrated hardware and software development products and services to NASA, DoD and Fortune 500 companies.

OUR PRODUCTS & SERVICES

	SPACE SYSTEMS INTEGRATION & OPERATIONS		MANUFACTURED PRODUCTS		ADDITIVE MANUFACTURING
	ENGINEERING & TECHNICAL SERVICES		HARDWARE & SOFTWARE DEVELOPMENT		HUMAN HEALTH & MEDICAL DEVICES

Research & Technology



Systems Concepts




Systems Design & Analysis



Engineering & Manufacturing



Systems Assembly



Systems Integration & Test



Management & Mission Operations



Logistics & Sustainment



- Minority Owned-SDB**
- AS9100 certified**
- Experienced Team of scientists, engineers, designers, and technicians**
- DCAA Approved Forward Pricing**
- Headquartered Cleveland Ohio**
- Award Winning Capabilities**

ZIN Technologies Inc.

6745 Engle Road | Middleburg Heights, Oh 44130
 Phone: 440.625-2223 | johansonm@zin-tech.com | www.ZIN-Tech.com