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Phase I, II, III	Awardee	Awardee Address	Principle Investigator	Business POC	Contract Number	Award Title-Link	End Date	Abstract	Keywords
II	MZA Associates Corporation SBIR.gov	2021 Girard SE Albuquerque, NM 87106	Name: Eric Magee Title: Senior Scientist Phone: (937) 684-	Name: Robert Praus, II Phone: (505) 245-	FA8650-17-C-1030	Atmospheric Characterization and Clouds for	7/30/2018	MZA partnered with Kratos/DFI proposes development,	
II	Mentis Sciences, Inc. SBIR.gov	215 Canal Street Manchester, NH 03101	Name: John Dignam Title: President Phone: (603) 624-	Name: John Dignam Phone: (603) 624-9197	FA8650-19-C-5097	High Temperature Structural/Resistive Foams	7/25/2021	"Mentis Sciences Inc. proposes to develop a high temperature	
II	Axellio Inc. SBIR.gov	2375 Telstar Drive Suite 150 Colorado Springs,	Name: David Gustavsson Title: Chief	Name: Leslie Sellmayer Phone: (719) 466-	FA8726-20-C-0006	Pitch Day in Command, Control,	3/23/2021	The FX-BLOX is a dual-use modification of the revolutionary	
II	Corvid Technologies LLC SBIR.gov	153 Langtree Campus Drive Mooresville, NC	Name: Scott Monsch Phone: (704) 799-6944	Name: Tracy Williams Phone: (405) 410-	HQ0034-20-C-0133	Hypersonic Warhead Optimization for	9/19/2022	The Office of the Secretary of Defense (OSD) Strategic	
I	Stottler Henke Associates, Inc. SBIR.gov	1650 South Amphlett Blvd. Suite 300	Name: Dr. Eric Domeshek Phone: (617) 945-	Name: Carolyn Maxwell Phone: (650) 931-	HQ0147-16-C-7001	Cases for Automating Realistic Threat	11/24/2016	"The Missile Defense Agency does extensive system assessment	Inline threat generator, Threat modeling, Threat signatures, Verification
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Wenjian Wang, Ph.D.	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7002	Large-scale Inline Validation-Embedded Threat	11/24/2016	To address Missile Defense Agency's (MDA) need for new	FRAMES, EO/IR, signature, trajectory, red blue, gameboard
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Jason Holmstedt Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7003	Weapon-Hard Array of Redundant MEMS	11/24/2016	To address the Missile Defense Agency need for a new inertial	Shock Hardened Inertial Measurement Unit (SHIMU), micro-electro-
I	GRAF RESEARCH CORPORATION	1112 Brook Circle Blacksburg, VA 24060	Name: Jonathan Graf Phone: (540) 808-	Name: Jonathan Graf Phone: (540) 808-7378	HQ0147-16-C-7004	Irrefutable Tamper Logging SBIR.gov	11/24/2016	Graf Research proposes to create the GR-TLogger, a tamper logger	Technology Protection, IP Protection, Tamper Evidence
I	MV Innovative Technologies LLC (DBA: Opt	711 E Monument Ave Ste 101 Dayton, OH 45402	Name: Dr. Tom Tumolillo Jr.	Name: Susie Engle Phone: (937) 286-4819	HQ0147-16-C-7005	Intelligent Tap (InTAP) Couplers for High Power	11/24/2016	To address the Missile Defense Agency's need for monitoring and	knowledge management, integration
I	TIMELIKE SYSTEMS, LLC SBIR.gov	5901 Indian School Rd., NE Albuquerque, NM	Name: Steve Coy Phone: (301) 509-1992	Name: Steve Coy Phone: (505) 228-4283	HQ0147-16-C-7006	Robust Multi-Fidelity Modeling for HEL Systems	11/24/2016	Modeling and simulation has long played a crucial role in the design and	High Energy Laser, Atmospheric Propagation, Adaptive

I	TANENHAUS & ASSOC INC SBIR.gov	53 Old Solomons Island Rd Suite H Annapolis, MD	Name: Martin Tanenhaus Phone: (410) 703-	Name: Martin Tanenhaus Phone: (410) 703-	HQ0147-16-C-7007	MEMS IMU Solutions for Missile Defense	11/24/2016	In 2006 Tanenhaus and Associates, Inc. began designing a miniature	MEMS IMU, inertial navigation, high-g device, Kalman filter,
I	EngeniusMicro, LLC SBIR.gov	1718 Peachtree Street Atlanta, GA 30309	Name: Dr. Michael Kranz Phone: (404) 382-	Name: Chris Heaton Phone: (404) 382-9646	HQ0147-16-C-7008	MEMS IMU Solutions for Missile Defense	11/24/2016	IMUs in flight systems (interceptors, airborne platforms, and space	MEMS IMU, MES INS, Accelerometer arrays, Gyro arrays, low drift
I	A-TECH CORPORATION SBIR.gov	1300 Britt SE Albuquerque, NM 87123	Name: Darren Laughlin Phone: (505) 767-	Name: Tom Edmondson Phone: (505) 767-	HQ0147-16-C-7009	Shock Hardened Inertial Measurement Unit	11/24/2016	The team of ATA and SNL is developing the Shock Hardened Inertial	thermal battery, anode, cathode, energy storage, electrodes, electrolyte,
I	MV Innovative Technologies LLC (DBA: Opt	711 E Monument Ave Ste 101 Dayton, OH 45402	Name: Svetlana Lachinova Phone: (520) 647-	Name: Tom Tumolillo, Jr. Phone: (505) 238-	HQ0147-16-C-7010	GPU-Based Computational Platform for	11/24/2016	Optonicus proposes development of user-friendly GPU-enhanced	Model-Based Engineering, Auto-generation of Surrogate
I	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440	Name: Brian Henslee Phone: (603) 632-4156	Name: Chrysa Theodore Phone: (937) 320-	HQ0147-16-C-7012	Thermal Battery Insulation SBIR.gov	11/24/2016	Next generation missile defense systems require power supplies with	Thermal Battery, Missile Power, Lithium, Energy Storage, High Voltage
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Prachee Sharma, Ph.D.	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7013	Network Monitoring and Configuration	11/24/2016	The MDA is seeking an innovative solution to detect/identify network	Logging, Irrefutable
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Rockville, MD	Name: Hongmei (Julia) Deng Title: Senior	Name: Mr. Mark James Phone: (301) 294-	HQ0147-16-C-7014	AiMNET: User-Configurable Autonomous	11/24/2016	"Modeling and Simulation (M&S) tools play a key role to assess	Network architecture, Network configuration, NETCONF, YANG,
I	EVIGIA SYSTEMS INC SBIR.gov	3810 Varsity Drive Ann Arbor, MI 48108	Name: Navid Yazdi Phone: (734) 302-1140	Name: Navid Yazdi Phone: (734) 302-1140	HQ0147-16-C-7015	Rugged MEMS IMU for Missile Applications	11/24/2016	This proposed SBIR Phase I effort initiates the development of	Isolation, MEMS, IMU, Accelerometer, Gyroscope, Resonator
I	eSpin Technologies, Inc. SBIR.gov	7151 Discovery Drive Chattanooga, TN	Name: Jayesh Doshi Phone: (310) 530-2011	Name: Deana Scoggins Phone: (423) 267-	HQ0147-16-C-7016	Nanofiber based Lithium Oxyhalide Battery Separator	11/24/2016	eSpin Technologies will develop a new advanced liquid electrolyte	Lithium oxyhalide battery, separator, reserve battery, missile
I	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Dr. Vernon Cole Phone: (423) 267-	Name: Mrs. Deborah Phipps Phone: (256) 726-	HQ0147-16-C-7017	Single Layer Separator for High Yield, Low Cost Li	11/24/2016	Lithium oxyhalide reserve batteries are critical for certain MDA	Inertial Measurement Unit (IMU), Gyroscope, Accelerometer, micro

I	Innosense Llc SBIR.gov	2531 West 237th Street Torrance, CA	Name: Raymond Winter Phone: (310) 530-	Name: Kisholoy Goswami Phone: (310) 530-	HQ0147-16-C-7018	Lithium Oxyhalide Battery Separator Material	11/24/2016	The micro-porous Polytetrafluoroethylene (PTFE) and glass	Nanofiber, porosity, electrolyte, lithium ion, oxyhalide, thionyl
I	Archarithms, Inc SBIR.gov	401 Holmes Avenue Huntsville, AL	Name: Dr. Mark Lambrecht Title: Chief Scientist	Name: Mr. Randy Riley Phone: (256) 426-	HQ0147-16-C-7019	Open Framework Planner with Embedded	11/24/2016	The proposed effort is to develop and demonstrate a missile	Defense planning, open systems architecture, adaptable, training, data
I	enVention LLC SBIR.gov	215 Wynn Drive Huntsville, AL 35805	Name: Terry Meacham Title: Director of	Name: Gary Bell Phone: (256) 217-9877	HQ0147-16-C-7020	OpMate - Open Plan Management, Analysis, and	11/24/2016	"This proposal describes a plan to meet the Missile Defense Agency's	Lithium oxyhalide batteries, Flexible ceramic separator,
I	Harmonia Holdings Group, LLC	2020 Kraft Drive, Suite 2400 Blacksburg, VA	Name: Marc Abrams Title: Principal Investigator	Name: Pallabi Saboo Phone: (540) 951-5915	HQ0147-16-C-7021	GSOAP: Generator for Scenarios and Open Architecture	11/24/2016	The current MDA Command, Control, Battle Management and	defense-design planner, planning framework, embedded training,
I	Erigo Technologies LLC SBIR.gov	P.O. Box 899 Enfield, NH 03748 United States	Name: Marc Kenton Phone: (857) 239-7500	Name: Wm. Baschnagel Phone: (603) 632-	HQ0147-16-C-7022	Smaller, More Powerful, and Longer-Lasting	11/24/2016	There is an ever-growing need for increased battery performance in	Reserve Batteries, Packaging Efficiency, Energy Density, Power
I	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Pyoungho Choi Phone: (937) 320-	Name: Deborah Phipps Phone: (256) 726-	HQ0147-16-C-7023	Advanced Reserve Battery Technologies with	11/24/2016	"The current state of the art reserve battery technologies will not be	Readout integrated circuit, ROIC, dual band infrared, radiation
I	Binergy Scientific Inc. SBIR.gov	196 Sterling Dr Bountiful, UT 84010	Name: Dr. Vojtech Svoboda Phone: (505) 767-	Name: Martina Svoboda Phone: (256) 714-	HQ0147-16-C-7024	Novel nanostructure anode and	11/24/2016	Thermal batteries are single discharge reserve batteries that provide	Thermal batteries, Higher Conductivity Electrolyte (HCE), MxNyS2
I	Technology Service Corporation	962 Wayne Avenue Silver Spring, MD	Name: Scott Lutz Phone: (719) 434-5030	Name: Donald Woods Phone: (310) 754-	HQ0147-16-C-7025	Inline Threat Generation for Modeling and	11/24/2016	Technology Service Corporation (TSC) proposes to develop an	Radar Cross Section, High Fidelity, Fast Method of Moments,
I	Exact Solution Scientific Consulting LLC	37 Davenport Place Morristown, NJ	Name: David Robert Bergman	Name: David Robert Bergman Phone: (551) 655-	HQ0147-16-C-7026	Inline Threat Generation for Modeling and	11/24/2016	Current simulation architecture relies heavily on pre-	Self-Establishing Network, User-Defined Architecture, Network
I	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Dr. Earl Burt Phone: (256) 508-1268	Name: Dr. Brent Romine Phone: (256) 327-	HQ0147-16-C-7027	Contextual In-line Signature Injection (CISI) SBIR.gov	11/24/2016	nou Systems, Inc. proposes the Contextual In-line Signature	Missile defense, modeling and simulation, high-fidelity

I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Raphael Panfili Phone: (781) 273-	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-16-C-7028	Inline Threat Generation Using FRAMES 2.0	11/24/2016	We intend to create a software tool, The Fast Rendering Algorithm for	M&S, Modeling and Simulation, Threat Data Generation, Trajectory
I	Valepro LLC SBIR.gov	4950 Corporate Drive NW Huntsville, AL	Name: Criag Runnels Phone: (719) 213-7244	Name: Candace Runnels Phone: (719) 355-	HQ0147-16-C-7029	Innovative Ways to Shorten System Level Simulation	11/24/2016	Accomplishing enterprise integration requires attainable	simulation integration, test automation, mREST, REST, orchestration,
I	Idaho Scientific LLC SBIR.gov	199 N Capitol Blvd Boise, ID 83702 United States	Name: Dale Reese Phone: (208) 596-2248	Name: Don Sanders Phone: (256) 527-4511	HQ0147-16-C-7030	Secure Protocol Unalterable Data (SPUD) SBIR.gov	11/24/2016	Idaho Scientific proposes to design and develop, SPUD, an irrefutable	Tamper logging, countermeasures, information assurance
I	BlueRISC, Inc. SBIR.gov	28 Dana Street Amherst, MA 01002	Name: Kristopher Carver	Name: Sylvia Moritz Phone: (617) 517-6324	HQ0147-16-C-7031	Irrefutable Tamper Evidence SBIR.gov	11/24/2016	BlueRISCs proposed solution to provide irrefutable tamper	Battle Planning, Command and Control, Embedded Training,
I	The Athena Group, Inc. SBIR.gov	408 West University Avenue, Suite 306	Name: Jonathon Meliott, Ph.D. Phone: (352) 371-	Name: Monica A.B. Murphy Phone: (352) 371-	HQ0147-16-C-7032	Irrefutable Tamper Evidence SBIR.gov	11/24/2016	In this Phase I SBIR project, The Athena Group, Inc., will develop	tamper logging
I	COLE ENGINEERING SERVICES, INC.	12253 Challenger Parkway Orlando, FL 32826	Name: Tony Lynch Phone: (407) 674-8323	Name: Ellen Hatcher Phone: (407) 674-8319	HQ0147-16-C-7033	Innovative Ways to Shorten System Level Simulation	11/24/2016	Missile Defense Agency seeks to develop a design and a concept of	Integration, Automation, Enterprise, Tools, System of Systems,
I	MacLean Engineering & Applied	1030 Hercules Avenue Houston, TX	Name: Dr. Ken Huffman Phone: (832) 476-	Name: John MacLean Phone: (832) 476-	HQ0147-16-C-7034	SITE: Modern Software Technology for	11/24/2016	The proposed innovation is to investigate application	in-line, threat, IR, RF, signatures, fidelity, modeling and simulation
I	COHESIONFORCE, INC. SBIR.gov	P.O. Box 11578 Huntsville, AL 35814	Name: David Phillips Phone: (256) 562-0600	Name: Joni Hall Phone: (256) 562-0600	HQ0147-16-C-7035	System Integration Team Environment	11/24/2016	CohesionForce proposes the development of a System Integration	simulation, integration, federations, test harness, behavior
I	Senseker Engineering SBIR.gov	5383 Hollister Ave. Ste. 230 Santa Barbara, CA	Name: Kenton Veeder Phone: (805) 617-	Name: Kenton Veeder Phone: (805) 617-	HQ0147-16-C-7036	Smart Readout Integrated Circuit for Dual Band	11/24/2016	This proposal outlines a large-format small-pitch low-power digital pixel	Readout Integrated Circuit, ROIC, Low noise, Large Format FPAs,
I	VOXTEL, INC. SBIR.gov	15985 NW Schendel Avenue Suite 200	Name: Adam Lee Phone: (256) 726-4911	Name: Debra Ozuna Phone: (971) 223-5646	HQ0147-16-C-7037	Radiation-hardened Reconfigurable	11/24/2016	A 1280 x 1024, 12-micron-pitch format radiation-hardened dual-	ROIC, DPS, DPROIC, dual band infrared FPA, high dynamic range, high

I	Alphacore, Inc. SBIR.gov	398 South Mill Ave, Suite 302 Tempe, AZ 85281	Name: Esko Mikkola Title: Senior Principal Engineer	Name: Esko Mikkola Phone: (520) 647-4445	HQ0147-16-C-7038	Smart Readout Integrated Circuit for Dual Band	11/24/2016	"Alphacore proposes the development of a new digital readout	High Energy Laser Beam Directors, Fiber Lasers, Optical Phased Arrays,
I	Quantum Information Extraction, Inc.	7027 Old Madison Pike Suite 108 Huntsville, AL	Name: Charles Hester Phone: (805) 617-	Name: Ricky Hammon Phone: (256) 476-	HQ0147-16-C-7039	Smart Readout Integrated Circuit for Dual Band	11/24/2016	The long read time, low data-rate and constrained dynamic-	readout integrated circuit (ROIC), digital readout integrated
I	Fastcap Systems Corporation	21 Drydock Ave Boston, MA 02210 United States	Name: Riccardo Signorelli Phone: (256) 714-	Name: Matt Fenselau Phone: (857) 239-	HQ0147-16-C-7040	High Power and High Energy Ultracapacitor -	12/22/2016	"Unlike reserve batteries, ultracapacitors have a	Thermal battery, model-based design
I	AdValue Photonics Inc SBIR.gov	3440 E Britannia Drive, Suite 190 Tucson, AZ 85706	Name: Shibin Jiang Title: President Phone: (520) 790-	Name: Shibin Jiang Phone: (520) 790-5468	HQ0147-16-C-7041	High Power Fiber Laser Tap Couplers for Phase and	11/24/2016	This project is to develop low loss bi-directional fiber tap couplers for	Fiber Laser, Multi-kW, Fiber Pump Combiner, Adiabatic Taper,
I	Optical Engines, Inc SBIR.gov	842 S Sierra Madre St STE D Colorado Springs,	Name: Donald Sipes Phone: (815) 383-8303	Name: Donald Sipes Phone: (815) 383-8303	HQ0147-16-C-7042	High Power Photonic WireFiber Laser	11/24/2016	Through years of experience developing low loss fiber pump	High Power Fiber Laser, Fiber Tap Coupler, Phase Locking, Polarization
I	NUTRONICS, INC. SBIR.gov	1851 Lefthand Cir. Ste G Longmont, CO	Name: Jeffrey Barchers Phone: (505) 228-	Name: Jeffrey Barchers Phone: (303) 530-	HQ0147-16-C-7043	High Energy Laser Requirements, Analysis, and	11/24/2016	Nutronics, Inc. proposes to develop a modeling and simulation tool, the	fiber tap coupler, fused fiber, large-mode-area (LMA) fiber, mode
I	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Perakath Benjamin Title: Senior	Name: Jason Ogle Phone: (979) 260-5274	HQ0147-16-C-7044	Framework for Enabling Adaptive planning and	11/24/2016	"Knowledge Based Systems, Inc. (KBSI) proposes to research	Defense Planning, Architecture, Data Sharing Methodologies,
I	Nuvotronics, LLC SBIR.gov	7586 Old Peppers Ferry Loop Radford, VA 24141	Name: Steven Huettner Phone: (800) 341-	Name: Scott Meller Phone: (800) 341-2333	HQ0147-16-C-7501	Kilowatt K-band SSPA SBIR.gov	6/20/2016	Gallium nitride (GaN) has opened the door to solid-state replacements	solid state power amp (SSPA), gallium nitride (GaN), K-band, kilowatt,
I	Radiabeam Technologies, LLC SBIR.gov	1717 Stewart Street Santa Monica, CA	Name: Dr. Alexei Smirnov Phone: (310) 822-	Name: Mr. Salime Boucher Phone: (310) 822-	HQ0147-16-C-7502	Solid State High Power Amplifier for	6/20/2016	RadiaBeam Technologies, LLC (RBT) propose to develop a	Solid state power amplifier, gain, microwave, combiner,
I	INNOWAVE, INC SBIR.gov	4 Russell Rd Acton, MA 01720 United States	Name: Yusuke Tajima Phone: (978) 314-	Name: Yusuke Tajima Phone: (978) 314-	HQ0147-16-C-7503	Solid State High Power Amplifier for	6/20/2016	The goal of this program is to develop solid state power amplifier	High power solid state amplifier, GaN MMIC, Waveguide combiner,

I	ENGIN-IC, INC. SBIR.gov	1721 W PLANO PKWY STE 121 Plano, TX 75075	Name: Steve Nelson Phone: (972) 332- 5000	Name: Chris Ison Phone: (972) 332- 5000	HQ0147-16-C- 7504	Solid State High Power Amplifier for	6/20/2016	ENGIN-IC, Inc. proposes to develop a highly efficient, linear K-Band	SSPA, GaN, Low loss combining, Efficient, Affordable
I	D'Angelo Technologies, LLC SBIR.gov	2685 Cevennes Terrace Beavercreek, OH	Name: Joseph D'Angelo Phone: (937) 271-	Name: Maurissa D'Angelo Phone: (216) 650-	HQ0147-16-C- 7505	Non-Destructive Testing Methods for Detecting Red	6/20/2016	Conductor faults can be devastating to a mission; having an embedded	red plague growth methods, test methods for Red Plague, hand
I	Luna Innovations Incorporated	301 1st Street SW Suite 200 Roanoke, VA	Name: Dr. Matthew Merrill Phone: (434) 220-	Name: Maggie Hudson Phone: (434) 483-	HQ0147-16-C- 7506	Nondestructive Red Plague Detection with	6/20/2016	Luna Innovations will develop technology to nondestructively detect	Red plague, Skin effect, Silver-plated wire, Impedance,
I	SIVANANTHAN LABORATORIES, INC. SBIR.gov	590 Territorial Drive, Suite H Bolingbrook, IL	Name: Dr. Richard Rimpinella Phone: (630) 226-	Name: Christoph Grein Phone: (630) 226-	HQ0147-16-C- 7507	Non-Destructive Testing Method to Detect Red Plague	6/20/2016	We propose to develop a non-destructive test method to identify and	Red Plague Detection, Cross-linked Ethylene- Tetrafluoroethylene (XL-
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Rockville, MD	Name: Eric van Doorn Phone: (301) 294-	Name: Mark James Phone: (301) 294- 5221	HQ0147-16-C- 7508	Passive Inter Modulationfor Corrosion	6/20/2016	It is well documented that corrosion, and many other non-	Galvanic corrosion, Passive Inter Modulation, non-linear,
I	Vadum, Inc. SBIR.gov	601 Hutton St Suite 109 Raleigh, NC 27606	Name: Glenwood Garner Phone: (919) 341-	Name: J. Gary Edge Phone: (919) 341- 8241	HQ0147-16-C- 7509	Multi-modal Galvanic Corrosion Sensor SBIR.gov	6/20/2016	Vadum will develop a handheld Multi-Modal Galvanic Corrosion	corrosion, corrosion detection, two-tone, PIM, Passive inter-
I	Tanner Research, Inc. SBIR.gov	825 S. Myrtle Ave. Monrovia, CA 91016	Name: Prakash Koonath Phone: (626) 471-	Name: Robert Glatt Phone: (805) 320- 3626	HQ0147-16-C- 7510	Detection of Corrosion Using RF Emissions	6/20/2016	Current methods for measuring optical figure and transmitted	Corrosion, Passive Intermodulation, Nondestructive
I	OPTICAL SCIENCES CORPORATION	P.O. Box 8291 Huntsville, AL 35808	Name: Dr. Thomas Cantey Phone: (256) 922-	Name: David Beasley Phone: (256) 922- 1500	HQ0147-16-C- 7511	Thermally Efficient Emitter Technology for	6/20/2016	Optical Sciences Corporation proposes to demonstrate the	Infrared, emitter, array, digital micromirror device, DMD
I	ROBERT A. RICHWINE, LLC SBIR.gov	1801 W. Dawn Drive Tucson, AZ 85704	Name: Robert Richwine Phone: (520) 400-	Name: Robert Richwine Phone: (520) 400-	HQ0147-16-C- 7512	Thermally Efficient Emitter Technology for	6/20/2016	We introduce a concept and a design for a high- speed, high-temperature	infrared, projector, simulation, seeker, nanotube,
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Fang Zhang, Ph.D. Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320- 3088	HQ0147-16-C- 7513	Thermally Efficient Infrared Emitter SBIR.gov	6/20/2016	Physical Optics Corporation (POC) proposes to develop a	Infrared projector, Emitter array, Thermal management,

I	APPLIED NANO FEMTO TECHNOLOGIES	181 Stedman St. #2 Lowell, MA 01851	Name: Jarrod Vaillancourt Phone: (978) 430-	Name: Jing Chen Phone: (978) 761-4314	HQ0147-16-C-7514	A plasmonic photonic antenna (PPA) enhanced	6/20/2016	Two-dimensional (2-D) midwave and longwave infrared (MWIR/LWIR)	Infrared Light Emitting Diode, Mid-wave IR, Long-wave IR, Plasmonic
I	SYMPLECTIC ENGINEERING CORPORATION	2901 Benvenue Ave. Berkeley, CA	Name: Shmuel L Weissman Phone: (510) 528-	Name: Shmuel L Weissman Phone: (510) 528-	HQ0147-16-C-7515	Innovative Methodologies for Modeling Fracture	6/20/2016	The objective is to develop an innovative tool to accurately and	Explicit Finite Element Codes, Hydrocodes, Generalized Finite
I	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Bryce Devine Phone: (256) 726-4816	Name: Deborah Phipps Phone: (256) 726-	HQ0147-16-C-7517	An Improved Materials Damage Model to Predict	6/20/2016	Research seeks to correct the limitations of peridynamic theory that	Peridynamics, Damage Modeling, High Strain Rate Fracture,
I	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Phone: (256) 319-	Name: Billy Todd Phone: (256) 319-2026	HQ0147-16-C-7518	Innovative Antenna Arrays Enabling	6/20/2016	IERUS Technologies proposes to develop a novel, conformal, non-	phased array, interceptor, antenna
I	Wavelet Technologies, Inc. SBIR.gov	664 Pike Avenue Attleboro, MA 02703	Name: Robert Hohlfeld Phone: (508) 222-	Name: Kathleen Hohlfeld Phone: (508) 222-	HQ0147-16-C-7519	Innovative Antenna Arrays Enabling	6/20/2016	Wavelet Technologies, Inc. (WTI) proposes to advance the state of the	Fractal antennas, fractal arrays, sidelobe reduction, ionospheric
I	Systema Technologies, Inc. SBIR.gov	10809 120th Avenue NE Kirkland, WA	Name: Hunter Golden Phone: (425) 487-	Name: Tom Prenzlowl Phone: (425) 487-	HQ0147-16-C-7520	System Integrated Approach for Multiple Object	6/20/2016	Systema will develop innovative solutions for restraining and	Payload, Deployment, Dispense
I	Mentis Sciences, Inc. SBIR.gov	215 Canal Street Manchester, NH 03101	Name: Mr. Robert Lumpkins Phone: (603) 624-	Name: John Dignam Phone: (603) 624-9197	HQ0147-16-C-7521	E3 Mitigation for Interceptor Thermal	6/20/2016	Mentis Sciences and San Diego Composites have developed composite	Thermal Protection, Lightning Strike, Electromagnetic
I	AJA Inc. SBIR.gov	56 Ledge View Drive Huntsville, AL	Name: James Sherrard Phone: (256) 604-	Name: A.J. Albert Phone: (256) 527-8795	HQ0147-16-C-7522	Multi-Object Payload Deployment	6/20/2016	The efficiency of future missile defense systems may be improved by	Payload Deployment, Correlated Magnet, Electromagnet Array,
I	BFE Acquisition Sub II, LLC SBIR.gov	12930 Morris Trail Colorado Springs, CO 80908	Name: Dr. Stephen Gaalema Phone: (719) 593-	Name: Erik Gaalema Phone: (719) 593-5901	HQ0147-16-C-7523	Low Light Short Wave Infrared Focal Plane Arrays	6/20/2016	Current large format focal plane array (FPA) imaging sensors for	NIR/SWIR, FPA, e-APD, low dark current, low noise
I	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: Joshua Patin Phone: (858) 332-0700	Name: David Strobel Phone: (858) 332-0700	HQ0147-16-C-7524	Innovative Antenna Arrays Enabling	6/20/2016	Our Space Micro team will develop an antenna array to support	interceptor, antenna, array, communications, kill vehicle, HAENS

I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Niusha Sarkhosh, Ph.D. Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7525	Beamforming Enhanced Antenna for a Missile	6/20/2016	To address need for innovative antenna arrays enabling	Antenna array, Multiband, Conformal, Low SWaP, Kill vehicle,
I	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440	Name: Richard Hreha Phone: (937) 320-	Name: Chrysa Theodore Phone: (937) 320-	HQ0147-16-C-7526	Low-Cost, Graded, Multi-function Thermal	6/20/2016	CRG proposes to develop a low-cost, multifunctional thermal	Thermal protection, High-temperature materials, Missile
I	TDA Research, Inc. SBIR.gov	12345 W. 52nd Ave. Wheat Ridge, CO	Name: Dr. Michael Diener Phone: (303) 940-	Name: Mr. John Wright Phone: (303) 940-	HQ0147-16-C-7527	Carbon Fiber Composite Insulator	6/20/2016	A multifunctional improved thermal protection system (TPS)	thermal protection, electromagnetic interference, EMI
I	LOADPATH, LLC SBIR.gov	933 San Mateo Blvd NE Ste 500-326	Name: Kenneth Brunetto Phone: (505) 803-	Name: Adam Biskner Phone: (505) 331-5331	HQ0147-16-C-7528	Multi-Object Deployment System (MODS)	6/20/2016	Implementing multiple object payloads on a single boost vehicle is a	separation, deployment, dispense, payloads, multi-object, restrain,
I	VOXTEL, INC. SBIR.gov	15985 NW Schendel Avenue Suite 200	Name: Andrew Huntington Phone: (971) 223-	Name: George Williams Phone: (971) 223-	HQ0147-16-C-7529	Low Light Short Wave Infrared Focal Plane Arrays	6/20/2016	Current focal plane array (FPA) technologies for imaging in low-light	SWIR, night vision, low light imaging, InGaAs, APD, avalanche
I	Xcom Wireless, Inc SBIR.gov	2815 Junipero Ave #110 Signal Hill, CA	Name: Dan Hyman Phone: (562) 743-6090	Name: Dan Hyman Phone: (562) 743-6090	HQ0147-16-C-7530	Tightly-Coupled Ultra-Wideband Phased Arrays for	6/20/2016	XCOM Wireless is a component developer focusing on advanced	MEMS, phase shifter, phased array, ESA, communications
I	Peregrine Falcon Corporation	1051 Serpentine Lane, Ste 100 Pleasanton, CA	Name: Mr. Robert Hardesty Phone: (925) 461-	Name: Mr. Robert Hardesty Phone: (925) 461-	HQ0147-16-C-7531	Interceptor Thermal Protection	6/20/2016	A successful development will yield a metal based system that	thermal protection, materials, lightning strike, electromagnetic
I	NU TREK INC SBIR.gov	16955 Via Del Campo Suite 250 San Diego, CA	Name: Jim Asbrock Phone: (760) 586-4535	Name: Miriam Rauch Phone: (858) 472-6889	HQ0147-16-C-7532	Low Light Short Wave Infrared Focal Plane Arrays	6/20/2016	Imaging in low light conditions is very difficult as it requires a	SWIR, low light, focal plane array, FPA, ROIC, digital ROIC, APD,
I	UTILITY DEVELOPMENT CORP	112 Naylor Avenue Livingston, NJ	Name: Dr. Radha Agarwal Phone: (973) 994-	Name: Mr. Harry Katz Phone: (973) 994-	HQ0147-16-C-7533	Interceptor Thermal Protection	6/20/2016	The objective will be to develop and demonstrate cost and	Thermal Protection, Materials, Lightning Strike, Electromagnetic
I	INTEVAC PHOTONICS, INC. SBIR.gov	3560 Bassett Street Santa Clara, CA	Name: Michael Jurkovic Phone: (408) 496-	Name: Moncia Weathers-Fields Phone: (408) 496-	HQ0147-16-C-7534	Low Light Short Wave Infrared Focal Plane Arrays	6/20/2016	The objective of the work is to investigate the feasibility of	SWIR, DNVS, DI2, L3D, TE-photocathode, digital-UXGA-low-light-level

I	SYSTEMS ENGINEERING ASSOCIATES	62 Johnny Cake Hill Aquidneck Corporate Park	Name: Mr. Andrew Delisle Phone: (401) 847-	Name: Mrs. Elizabeth Goetz- Patridge	HQ0147-16-C- 7535	Multi-Object Payload Deployment	6/20/2016	Technological advances have facilitated weapons systems capable of	Multi-Payload, Retention, Deployment, Reduced-Shock,
I	DANIEL H. WAGNER ASSOCIATES,	559 West Uwchlan Avenue Suite 140 Exton, PA 19341	Name: Dr. Eric Butts Phone: (610) 280- 3835	Name: Ms. Lori Leiby Phone: (610) 280- 3830	HQ0147-16-C- 7536	Improved Track Accuracy for Missile	6/20/2016	The focus of this Phase I effort is to analyze and quantify improvements	Tracking, Track Accuracy, Data Fusion,
I	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Jason Keen Phone: (256) 319- 2026	Name: Billy Todd Phone: (256) 319- 2026	HQ0147-16-C- 7537	Improved Track Accuracy for Missile	6/20/2016	IERUS proposes the advancement and realization of recent	tracking, radar, GPU
I	OPTIMAL SYNTHESIS INC. SBIR.gov	95 First Street Suite 240 Los Altos, CA	Name: Dr. Prasenjit Sengupta Phone: (650) 559-	Name: Dr. P. Menon Phone: (650) 559- 8585	HQ0147-16-C- 7538	High-Accuracy Target Tracking Exploiting High-	6/20/2016	The sensor models to be employed in the proposed research will	Radar, GPU, MIC
I	RESERVOIR LABS INC SBIR.gov	632 Broadway, Suite 803 New York, NY	Name: Paul Mountcastle Phone: (212) 780-	Name: Melanie Peters Phone: (212) 780-	HQ0147-16-C- 7539	Improved Track Accuracy for Missile	6/20/2016	Reservoir Labs introduces an innovative approach to the	Ballistic Missile Defense, radar, tracking, debris mitigation
I	First RF Corporation SBIR.gov	5340 Airport Blvd. Boulder, CO 80301 United States	Name: Dr. Ian Rumsey Phone: (303) 449-	Name: Jeanne Hill- Jurik Phone: (303) 449-	HQ0147-16-C- 7540	Improved Track Accuracy for Missile	7/18/2016	"Efficient acquisition, tracking, and discrimination of	Radar, phased array, track accuracy, angle accuracy
I	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Mr. Sean Guarino Phone: (617) 491-	Name: Mr. Mark Felix Phone: (617) 491-	HQ0147-16-C- 7541	Remediation for Adaptive Missile Planners through	6/20/2016	We propose to design and demonstrate the feasibility of	Missile Defense Planning, Game-Based Training, Mixed-Initiative
I	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Ronald Fernandes, PI, PhD Phone: (979) 260-	Name: Donielle Mayer Phone: (979) 260-	HQ0147-16-C- 7542	Intuitive User Interface Technology	6/20/2016	Knowledge Based Systems, Inc. (KBSI) proposes to conduct	Human Machine Interface, Virtual Reality, Tangible user interfaces,
I	Creative Technologies, Inc. SBIR.gov	7080 Hollywood Blvd Los Angeles, CA	Name: James Korris Phone: (323) 472- 6204	Name: Stephanie Granato Phone: (323) 472-	HQ0147-16-C- 7543	Gaming Trainer SBIR.gov	6/20/2016	Successful games exert an undeniable pull on their audience. When	ballistic missile defense, training aids, gamification, gamified,
I	SA Photonics, Inc. SBIR.gov	120 Knowles Dr. Los Gatos, CA 95032	Name: Dr. Michael Browne Phone: (408) 348-	Name: Andrea Singewald Phone: (970) 778-	HQ0147-16-C- 7544	Command and Control Human-to- Machine Interface	6/20/2016	Operationally, missile defense is a very challenging activity,	augmented reality, human-to-machine interface, HMI, MMI,

I	Tier 1 Performance Solutions, LLC	100 E. Rivercenter Blvd Suite 100 Covington, KY	Name: Dustin Shell Phone: (859) 663-2114	Name: Terence Andre Phone: (859) 663-	HQ0147-16-C-7545	SCORESimulated Challenge for Operational	6/20/2016	We propose warfighter training systems that are more effective,	gameful experience, gamification, missile defense, competency-
I	Archarithms, Inc SBIR.gov	401 Holmes Avenue Huntsville, AL	Name: Dr. Mark Lambrecht Title: Chief Scientist	Name: Mr. Randy Riley Phone: (256) 426-	HQ0147-16-C-7546	Command and Control Human-to-Machine Interface	6/20/2016	This effort seeks to develop training and operational displays that	Human Machine Interface, Virtual Reality, Training
I	Stottler Henke Associates, Inc. SBIR.gov	1650 South Amphlett Blvd. Suite 300	Name: Dr. Jeremy Ludwig Phone: (541) 515-	Name: Ms. Carolyn Maxwell Phone: (650) 931-	HQ0147-16-C-7547	Gamification Applied to Missile Defense (GAMeD)	6/20/2016	We propose to develop the Gamification Applied to Missile Defense	Ballistic Missile Defense, Defense Planning, Battlespace
I	Chimaera Science LLC SBIR.gov	124 S. Franklin St. Suite 228 Tampa, FL 33602	Name: Phillip Mangos, Ph.D. Phone: (321) 262-	Name: Phillip Mangos, Ph.D. Phone: (321) 262-	HQ0147-16-C-7548	RAPTOR - Reality Augmentation and Personalized	6/20/2016	One of the challenges for a missile defense systems command and	Human-systems integration, virtual reality, human-centered
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Mr. Wenjian Wang, Ph.D. Phone: (310) 320-	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-16-C-7549	Advanced Cognition Processing and	6/20/2016	Contractor will develop innovative concepts and techniques to develop	Advanced cognition processing, target recognition
I	Advratech SBIR.gov	2154 Liberty Rd. New Carlisle, OH 45344	Name: Dr. James Schmitz Phone: (937) 705-	Name: Mr. Tim Sparling Phone: (937) 412-	HQ0147-16-C-7550	Advanced Cognition Processing and	6/20/2016	Contractor will develop innovative concepts and techniques to develop	Advanced cognition processing, target recognition
I	Vadum, Inc. SBIR.gov	601 Hutton St Suite 109 Raleigh, NC 27606	Name: Eric Fails Phone: (919) 341-8241	Name: J. Gary Edge Phone: (919) 341-8241	HQ0147-16-C-7551	Advanced Cognition Processing and	6/20/2016	Contractor will develop innovative concepts and techniques to develop	Advanced cognition processing, target recognition
I	Decibel Research, Inc. SBIR.gov	325 Bob Heath Drive Huntsville, AL	Name: Enrico Poggio Phone: (256) 489-6193	Name: Debbie Agarwal Phone: (256) 489-	HQ0147-16-C-7552	Advanced Cognition Processing and	6/20/2016	Contractor will develop innovative concepts and techniques to develop	Advanced cognition processing, target recognition
I	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Neil Wachowski Phone: (970) 207-	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-16-C-7553	Advanced Cognition Processing and	6/20/2016	Contractor will develop innovative concepts and techniques to develop	Advanced cognition processing, target recognition
I	EDWARD POPE DR SBIR.gov	31304 Via Colinas, Suite 102 Westlake Village,	Name: Thomas Rosengren Phone: (818) 991-	Name: Michael Bailey Phone: (818) 991-	HQ0147-16-C-7554	Advanced Materials/Method s for Improved	6/20/2016	MATECH proposes to develop a cutting edge lightweight thermal	Divert Attitude Control System (DACs), Solid Rocket Motors (SRMs),

I	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Joseph Viola Phone: (916) 999-8736	HQ0147-16-C-7555	Ultra-Low Weight Hot Gas Valve for Long Duration	6/20/2016	VTs has developed, through the MDA SBIR program, an	DACS, SDACS, Hot Gas Valve, ACS
I	UES, Inc. SBIR.gov	4401 Dayton-Xenia Road Dayton, OH 45432	Name: Dr. HeeDong Lee Phone: (937) 426-	Name: Mr. Rick Weddle Phone: (937) 426-	HQ0147-16-C-7556	Development of Novel Hybrid UHTC Composites	6/20/2016	This Phase I SBIR program seeks a new fabrication method to	Ceramic composites, Hybrid-Clad, Oxidation resistant UHTC, Top-
I	EpiSys Science, Inc. SBIR.gov	12234 Boulder View Dr. Poway, CA 92064	Name: Bo Ryu Phone: (858) 805-5608	Name: Bo Ryu Phone: (858) 805-5608	HQ0147-16-C-7557	RF-SCORPiOn: RF-Sensing COgnitive Radio PlatfOrm	6/20/2016	This effort seeks to improve sensing quality of slots across channels	Spectrum sensing, signal classification, interference analyzer,
I	INFOBEYOND TECHNOLOGY, LLC SBIR.gov	320 Whittington PKWY Louisville, KY	Name: Bin Xie Phone: (502) 371-0907	Name: Debbie Qiu Phone: (502) 371-0907	HQ0147-16-C-7558	System Communications SBIR.gov	6/20/2016	Building a reliable, high-bandwidth, and low-latency network is	Communications, Network Coding, Missile Defense, Link Latency,
I	Tetramer Technologies,L. L.C. SBIR.gov	657 S. Mechanic Street Pendleton, SC	Name: Jeffrey DiMaio Phone: (864) 903-	Name: Jeffrey DiMaio Phone: (864) 903-	HQ0147-16-C-7559	Structural Reactive Polymeric Materials	6/20/2016	Missiles produced with reactive materials can add chemical energy to	reactive materials, composites, energetic materials, thermite,
I	REACTIVE METALS INTERNATIONALA	340 East Church Rd King of Prussia, PA	Name: Phillip Martellaro Phone: (610) 279-	Name: Bernard Kosowski Phone: (610) 279-	HQ0147-16-C-7560	Reactive Nanocomposite Materials for	6/20/2016	This effort is aimed at increasing lethality of kinetic energy warheads	Nanocomposite, kinetic warhead, enhanced lethality,
II	AMERICAN ENERGY TECHNOLOGIES	220 W. Campus Ct., Unit D Arlington Heights,	Name: Igor Barsukov Title: Manager Research&Developm	Name: Mayya Barsukov Phone: (847) 481-	HQ0147-16-C-7701	Top Coatings and Enhanced Cathodic	2/15/2018	American Energy Technologies Co. (a woman-owned small	Cathodic protection, corrosion, sacrificial anode, zinc primer,
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0147-16-C-7702	Methodologies for Accurate Assessment of	6/8/2016	IERUS Technologies will leverage its expertise in radar signature analysis	Machine Learning, Computational Electromagnetics
II	Mentis Sciences, Inc. SBIR.gov	215 Canal Street Manchester, NH 03101	Name: Mr. Robert Lumpkins Phone: (603) 624-	Name: John Dignam Phone: (603) 624-9197	HQ0147-16-C-7703	Advanced Synergistic Structures and	3/20/2018	Mentis proposes to leverage the advantages of its high-temperature,	Lightweight materials, Tape Wrap, Shingle Wrap, Insulation,
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Allan Dokhan Phone: (978) 738-8133	Name: B. David Green Phone: (978) 689-	HQ0147-16-C-7704	Advanced High Performance Mono-Propellant	3/28/2018	Physical Sciences Inc. proposes to develop and demonstrate a scale-up	Insensitive Munition (IM), Monopropellant, Bipropellant, Hazard,

II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0147-16-C-7705	Advanced Divert and Attitude Control SBIR.gov	3/8/2018	Valley Tech Systems (VTS) has developed, through multiple SBIR	SDACS ACS, ACS, Solid Propellant, Controllable Solid Propulsion,
II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Joseph Viola Phone: (916) 990-8736	HQ0147-16-C-7706	Standard Missile 3 (SM-3) Materials Design	5/5/2018	A two-pulse Third Stage Rocket Motor (TSRM) with long inter-pulse	ACS, Solid Propellant, Controllable Solid Propulsion, Booster ACS,
II	Nevada Composites, Inc. SBIR.gov	PO Box 2174 Dayton, NV 89403-2174	Name: Linda Clements Title: CEO	Name: John Crowley Phone: (775) 246-5999	HQ0147-16-C-7707	Water-washout tooling for improved high- to	6/26/2018	Nevada Composites has developed Green-AeroSM tooling,	Composite, lightweight, motor case, washout mandrel, high
II	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Daniel Butts Title: Materials Engineer	Name: Timothy McKechnie Phone: (256) 851-	HQ0147-16-C-7708	Further Enhancement of Non-Eroding	5/5/2018	Plasma Processes non-eroding throat (NET) technology for	Aluminized propellant solid rocket motor (SRM); non-eroding
II	SAN DIEGO COMPOSITES, INC. SBIR.gov	9220 Activity Road San Diego, CA 92126	Name: Megan Caprio Title: Principal	Name: Christine Benzie Phone: (858) 751-	HQ0147-16-C-7709	Non-Traditional Insulation for Flight Weight	7/4/2018	"MDA interceptors require lighter weight TSRM and ACS	Lightweight thermal insulation, pressure accumulator, composite
II	A-TECH CORPORATION SBIR.gov	1300 Britt SE Albuquerque, NM 87123-3353	Name: Bill Walker Phone: (505) 767-1200	Name: Tom Edmondson Phone: (505) 767-	HQ0147-16-C-7711	Trajectory Reconstruction Algorithms for	6/6/2018	Team ATA proposes to extend development through Phase II for a	multi-target, multi-sensor tracking, multi-sensor filtering
II	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Jason Johnson Title: Program	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-16-C-7712	Track Refinement from Off-Nominal Break-Up	6/29/2018	To achieve MDAs mission, it is crucial that the BMDS be able to	track refinement, off-nominal break-up, intercept events, data
II	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Brad Rosenberg Title: Senior Scientist	Name: Mark Felix Phone: (617) 491-3474	HQ0147-16-C-7713	Command and Control Course of Action (COA)	12/31/2019	Missile defense remains a crucial component to protect the United	Course-of-action, COA-analysis, planning, missile-defense,
II	Archarithms, Inc SBIR.gov	401 Holmes Avenue Huntsville, AL	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 426-2915	HQ0147-16-C-7714	Command and Control Course of Action (COA)	5/29/2018	"Combatant Commands (CoComs) desire the ability to perform	Defense Design, Course of Action, Service Oriented Architecture,
II	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Ben Slocumb Title: Program Director	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-16-C-7715	Innovative and Modular Open System Radar	5/23/2018	MDA invests millions annually on new radar technologies. However,	radar, simulation, test environment, open architecture,

II	COGNITECH CORPORATION SBIR.gov	1060 EAST 100 SOUTH SUITE 306 SALT LAKE CITY,	Name: Jerome Soller Title: President/CEO Phone: (801) 322-	Name: Jerome Soller Phone: (801) 322-0101	HQ0147-16-C-7716	Innovative Data Architecture Generation Across	6/8/2018	The proposed Phase II research will develop a comprehensive Big Data	open software foundation, OSF; simulation; system of
II	ATC-NY, Inc. SBIR.gov	P.O. Box 422 Trumansburg, NY 14886-0422	Name: Judson Powers Title: Technical	Name: Richard Smith Phone: (607) 257-1975	HQ0147-16-C-7717	Development of High Performance Computing (HPC)	5/16/2018	The Missile Defense Agency (MDA) has identified the need for	graphics processing unit (GPU), field-programmable gate
II	COLORADO ENGINEERING INC. SBIR.gov	1915 Jamboree Drive Suite 165 Colorado Springs,	Name: Mike Hammel Title: President	Name: Nancy Scally Phone: (719) 388-8582	HQ0147-16-C-7718	Field Programmable Gate Arrays FPGA	6/17/2018	Colorado Engineering, Inc. (CEI), in conjunction with NVIDIA and Altera	Massive Parallel Computing (MPC), Multi-Core Processing, Field
II	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440-	Name: Michael Rauscher Title: Director,	Name: Ms. Chrysa Theodore Phone: (937) 320-	HQ0147-16-C-7719	Motor Case Disintegration as FCO Fast Cook-Off	7/15/2018	Fast cook-off (FCO) mitigation solutions rely on a system approach	Nanocomposites, Nanocomposite Fabrication, Thermite,
II	Luna Innovations Incorporated	301 1st Street SW Roanoke, VA 24011	Name: Daniel Metrey Title: Principal	Name: Shirley Evans Phone: (540) 961-6724	HQ0147-16-C-7720	Rapidly Disintegrating Composites for	6/2/2018	Mitigation methods for fast cook-off (FCO) and other insensitive	Insensitive Munitions, IM, Fast Cook-Off, FCO, Passive Venting
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Kenneth Levin Title: Principal	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7721	Grounding Multilayer Missile Coating for	5/31/2018	To address the Missile Defense Agency (MDA) need for improved	lightning protection, missile body, EMP, composite rocket motor,
II	Integument Technologies Inc SBIR.gov	72 Pearce Avenue Tonawanda, NY 14150-6711	Name: Terrence Vargo Title: President	Name: Terrence Vargo Phone: (716) 873-	HQ0147-16-C-7723	Weight Optimized Mitigation to Direct Effects of	9/15/2019	Integument Technologies, Inc. (Prime) proposes to	lightning strike protection, paint replacement applique,
II	Physical Optics Corporation SBIR.gov	Applied Technologies Division 1845	Name: Shahzad Khalid, Ph.D. Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-16-C-7724	Self-healing Network for Transient Interrupt	6/21/2018	To address the Missile Defense Agency (MDAs) need for	Avionics, power transient, modular, reconfigurable
II	Science Research Laboratory, Inc	15 Ward Street Somerville, MA 02143	Name: Geoffrey Campbell Title: PI	Name: Jonah Jacob Phone: (617) 547-1122	HQ0147-16-C-7725	Variable Gravity Two-Phase Heat Sink for Airborne	10/30/2019	Two-phase cooling systems are an enabling technology for high	Thermal management, laser diodes, high energy lasers, microchannel
II	i2C Solutions, LLC SBIR.gov	500 S Arthur Ave Unit 300 Louisville, CO	Name: Michael Hulse Title: Principal	Name: Douglas Campbell Phone: (720) 300-	HQ0147-16-C-7726	Stable Maneuverable Airborne Thermal	7/19/2018	In response to the need for improved thermal management in airborne	Directed energy, thermal management, airborne

II	Srico Inc SBIR.gov	2724 SAWBURY BOULEVARD COLUMBUS, OH	Name: Dr. Sri Sriram Title: President & CEO	Name: Judith Sriram Phone: (614) 799-0664	HQ0147-16-C-7728	Robust Phase Modulators and Polarization	7/6/2108	The Phase I effort established the necessary building	High power fiber lasers, Fiber laser arrays, Fiber amplifiers, Beam
II	Optical Physics Company SBIR.gov	26610 Agoura Road Suite 240 Calabasas, CA	Name: Richard Hutchin Title: CEO	Name: Arthur Thomas Stanley Phone: (818) 880-	HQ0147-16-C-7729	Interferometric Tracker for Nanoradian-Class	7/17/2018	This Phase II will build and demonstrate nanoradian class	remote tracking, star tracking, track illuminator
II	G. A. Tyler Associates, Inc. SBIR.gov	1341 South Sunkist Street Anaheim, CA	Name: Jim Riker Title: Senior Scientist Phone: (714) 772-	Name: Glenn Tyler Phone: (714) 772-7668	HQ0147-16-C-7730	Photon-counting Enhanced Sensor System (PhESS)	6/29/2018	In this effort, the Optical Sciences Company (tOSC) and Raytheon	Phased Array, Speckle, Missile Defense, Communications
II	Digital Optics Technologies, Inc. SBIR.gov	1645 Hicks Road, Suite H Rolling Meadows,	Name: Nicholas J Condon Title: Vice President	Name: Rabia Shahriar Phone: (847) 358-	HQ0147-16-C-7731	High-End Tactical Grade Inertial Measurement Unit	6/11/2018	There is a need for tactical IMUs with better accuracy than the state	Accelerometer, Gyroscope, Superluminal Laser, IMU, Navigation,
II	CONTROLLED DYNAMICS INC SBIR.gov	18141 Beach Blvd., Suite 170 Huntington Beach,	Name: Scott Green Title: Principal Engineer	Name: David Schenck Phone: (562) 735-	HQ0147-16-C-7732	High-End Tactical Grade Inertial Measurement Unit	9/30/2020	"The Rad Hard IMU proposed in this research is a	IMU, INS, navigation, seekers, interceptors, missiles
II	Allcomp Inc. SBIR.gov	209 Puente Ave. City of Industry, CA 91746-2304	Name: Wei Shih Title: Director Phone: (626) 369-	Name: Wei Shih Phone: (626) 369-1273	HQ0147-16-C-7734	Low Cost 3-D (Multi-D) Carbon-Carbon for Missile	5/5/2018	Throat inserts and nose tips are essential and critical components of	carbon-carbon, 3D, 4D, fiber preform, preform architecture, carbon
II	SIVANANTHAN LABORATORIES, INC. SBIR.gov	590 Territorial Drive, Suite H Bolingbrook, IL	Name: Anthony Ciani Title: Scientist Phone: (630) 226-	Name: Christoph Grein Title: PMO	HQ0147-16-C-7736	Increased Lifetime and Decreased Dark Current in Ga-	6/3/2018	Absorber layers based on Type-II superlattices (T2SLs) composed of III-	Superlattice, LWIR, InAsSb, lifetime, quantum efficiency,
II	Tanner Research, Inc. SBIR.gov	825 S. Myrtle Ave. Monrovia, CA 91016	Name: Nate Selden Title: Scientist Phone: (626) 471-	Name: Robert Glatt Phone: (805) 320-3626	HQ0147-16-C-7737	Miniaturized Safe and Arm (S&A) Devices SBIR.gov	6/27/2018	"The evolution in safe and arm (S&A) devices to in-line electronic S&A	1316/1901-compliant, insensitive energetics, In-Line Electronic ISD, Built-
II	BlueRISC, Inc. SBIR.gov	28 Dana Street Amherst, MA 01002-2209	Name: Kristopher Carver Phone: (413) 359-	Name: Sylvia Moritz Phone: (617) 517-6324	HQ0147-16-C-7738	Reconfigurable Memory or Central Processing	10/11/2018	The proposed solution automatically co-creates a per-device-unique,	configurable secure processor, architecture, compiler, device-unique,
II	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Bogdan Pathak Title: Principal R&D	Name: Gena Johnson Phone: (724) 483-3946	HQ0147-16-C-7740	Radio Frequency (RF) Field Sensor for Integrated	7/5/2018	Weapons systems managed by the MDA including the Ballistic	RF field sensor, system-on-a-chip, integrated sensor, fabrication,

II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Sean Treadway Phone: (704) 799-	Name: David Robinson Phone: (704) 799-	HQ0147-16-C-7741	Anchoring Post-Intercept Debris Prediction Tools	6/19/2018	Initial research into potential in-situ KA sensor technologies has	Post-Intercept Assessment, Hit Assessment, Kill
II	CONTROL VISION INC SBIR.gov	6825 East Outlook Drive Tucson, AZ 85756	Name: Dan Crawford Title: Project Manager	Name: Daniel Crawford Phone: (208) 523-	HQ0147-16-C-7742	Modular, Stabilized, Tracking and	9/13/2018	The objective is to seek post-intercept debris data from missile	post-intercept debris, debris mitigation, kill assessment
II	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Joseph Knuth Title: Program Manager	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-16-C-7744	Enhanced Multiple Hypothesis Correlation for	9/21/2018	The scope of this effort is to design, prototype, assess, document, and	data association, joint data association and bias estimation (JABE), multi-
II	Innosense Llc SBIR.gov	2531 West 237th Street Torrance, CA	Name: Maksudul Alam Title: Deputy	Name: Kisholoy Goswami Phone: (310) 530-	HQ0147-16-C-7745	Modular Hypergolic Leak Detector	6/30/2018	Hypergolic fuels are used in some missile systems for inducing	Hypergolic Leak Detector, Hypergolic Fuels, Monomethyl
II	Space Micro Inc. SBIR.gov	10237Flanders Court San Diego, CA	Name: Joshua Patin Phone: (858) 332-0700	Name: David Strobel Phone: (858) 332-0700	HQ0147-16-C-7747	Radiation Hardening Manufacturing	7/31/2018	Space Micro proposes an innovative program for technology	CubeSat, payloads, technology demo, Technology Readiness
II	Space Micro Inc. SBIR.gov	10237Flanders Court San Diego, CA	Name: Joshua Patin Phone: (858) 332-0700	Name: David Strobel Phone: (858) 332-0700	HQ0147-16-C-7748	Interceptor Avionics-Bus RF communications	7/31/2018	The Nanosat Testbed Initiative Bus Radio-Frequency	CubeSat, communications, TRL, spacecraft bus, link
II	Honeybee Robotics, Ltd. SBIR.gov	Building 3, Suite 1005 Brooklyn, NY	Name: Erik Mumm Phone: (720) 491-5555	Name: Chris Chapman Phone: (646) 459-	HQ0147-16-C-7749	Innovative Technologies for Operationally	7/31/2018	The 2011 launches of Operatinally Responsive Space-1 (ORS-1) and	Modular, Control Moment Gyroscope (CMG), Reaction wheel,
II	TOUCHSTONE RESEARCH LABORATORY	1142 Middle Creek Road Triadelphia, WV	Name: Brian Gordon Title: Senior Program Manager/Lab	Name: Brian Joseph Phone: (304) 547-5800	HQ0147-16-C-7753	Carbon Foam Lightning and Thermal	8/10/2018	The feasibility of using a low-cost, coal-based carbon foam (CFOAM)	carbon, foam, lightning protection, thermal protection, thermal
II	DBV Technology, LLC SBIR.gov	161 Woodmist Way North Kingstown,	Name: Harold Vincent Phone: (401) 714-	Name: Harold Vincent Phone: (401) 714-	HQ0147-16-C-7760	Imaging Instrumentation System SBIR.gov	9/13/2018	There are two main objectives of the follow-on Phase II for Small	impacts, splashes, underwater acoustics, positioning
II	Charles River Analytics, Inc. SBIR.gov	625 MOUNT AUBURN ST Cambridge, MA	Name: Brian Ruttenberg Title: Scientist	Name: Mark Felix Phone: (617) 491-3474	HQ0147-16-C-7801	Adaptive Management and Mitigation of	6/30/2018	Various processes have been developed to manage uncertainty in	

II	GCAS, Inc. SBIR.gov	1531 Grand Avenue 1531 Grand Avenue	Name: Maurizio Borsotto Title: Senior	Name: C. Savell Phone: (760) 591-4227	HQ0147-16-C-7805	Decision Making under Uncertainty SBIR.gov	11/17/2017	Our proposed second order uncertainty (SOU) product is a decision	
III	Science Research Laboratory, Inc	15 Ward Street Somerville, MA 02143	Name: Geoffrey Campbell Title: PI	Name: Jonah Jacob Phone: (617) 547-1122	HQ0147-16-C-7902	Light Weight Super High Efficiency Fiber-Coupled			
III	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Daniel Butts Title: Materials Engineer	Name: Timothy McKechnie Phone: (256) 851-	HQ0147-16-C-7904	Near Net Shape Manufacturing of Non-Eroding, Thin-	10/14/2020		
II	FREENT TECHNOLOGIES , INC.	PO Box 5365 Huntsville, AL 35814-5365	Name: Michael Guthrie Title: Principal	Name: Herbert Fluhler Phone: (256) 651-	HQ0147-17-C-7107	Advanced Hit Detection Systems SBIR.gov	4/9/2019	FreEnt Technologies, Inc. (FreEnt) and Johns Hopkins Universitys	
I	1ST EDGE LLC SBIR.gov	4088 High Mountain Rd NE Huntsville, AL	Name: Tim McCarter Title: President Phone: (256) 513-	Name: Tim McCarter Phone: (256) 513-9555	HQ0147-17-C-7201	Innovative Ways to Streamline Scenario	6/22/2017	The strategic planning and creation of test scenarios for the Missile	Scenario Generation, Optimization, Data Schemas, Rules-based
I	Aero Thermo Technology, Inc SBIR.gov	620 Discovery Drive, NW Huntsville, AL	Name: Dr. Christian Tournes Title: Principal	Name: Ms. Wendy Wilson Phone: (256) 922-	HQ0147-17-C-7202	Fast IMU Autonomus Alignment,	6/22/2017	Navigation performance of Inertial Measurement Units (IMUs) is governed	Inertial Measurement Unit (IMU), Inertial Navigation Systems
I	Alpha Star Corporation SBIR.gov	5150 E. PACIFIC COAST HWY LONG BEACH, CA	Name: FRANK ABDI Title: CHIEF TECHNICAL OFFICER	Name: KAY MATIN Phone: (562) 961-7827	HQ0147-17-C-7203	Additive Manufacturing for Affordable Missile	6/22/2017	Team will leverage advanced multi-scale material modeling, multi-	Additive Manufacturing, GENOA 3D print software, Powder based
II	Alpha Star Corporation SBIR.gov	5150 E. PACIFIC COAST HWY LONG BEACH, CA	Name: FRANK ABDI Title: CHIEF TECHNICAL OFFICER	Name: KAY MATIN Phone: (562) 961-7827	HQ0147-17-C-7203	Additive Manufacturing for Affordable Missile	3/8/2020	The efforts will leverage advanced multi-scale material modeling, multi-	
I	ATC-NY, Inc. SBIR.gov	P.O. Box 422 Trumansburg, NY 14886	Name: Dr. Robert Joyce Title: Technical	Name: Richard Smith Phone: (607) 257-1975	HQ0147-17-C-7204	SilverlineM&S SBIR.gov	6/22/2017	Modeling and Simulation (M&S) systems are often composed of complex	modeling and simulation (M&S), attack tree, data integrity, risk, embedded
I	AURA Technologies, LLC SBIR.gov	605 Mercury St, Suite 200 Raleigh, NC 27603	Name: Douglas Bennett Title: CEO	Name: Douglas Bennett Phone: (919) 810-	HQ0147-17-C-7205	AM for Missile Defense SBIR.gov	6/22/2017	Bennett Advanced Research of Raleigh, NC propose to demonstrate	additive manufacturing, digital thread, 3D printing, physics model,

I	Bodkin Design & Engineering, LLC SBIR.gov	P.O. Box 81368 Wellesley, MA 02481	Name: James Daly Title: Project Manager	Name: Andrew Bodkin Phone: (617) 795-	HQ0147-17-C-7206	Aft Looking Spectrometer for Plume	6/22/2017	Currently, optical measurements available on target plumes and re-	reentry vehicle, missile defense, spectrometer, plume, wake, modeling
I	Capco Inc. SBIR.gov	1328 Winters Ave. Grand Junction, CO 81501	Name: Ted Spence Title: Research Chemist	Name: Christopher Williams Phone: (970) 243-	HQ0147-17-C-7207	Special Tooling and Processes for Repeatable	6/22/2017	In his proposal, we present the development of an	dispenser, precision, repeatability, threadlocking
I	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Mr. Wayne Thornton Title: Senior Scientist	Name: Mr. Mark Felix Phone: (617) 491-	HQ0147-17-C-7208	Modeling the Effects of RF Attenuation in the	6/22/2017	The modeling & simulation (M&S) tools currently used by the	simulation environment, modeling and simulation (M&S), ballistic missile
I	CIPHERDYNE, INC. SBIR.gov	2318 NW 43rd st Lawton, OK 73505 United States	Name: Jonathan Bennett Title: President	Name: Jonathan Bennett Phone: (580) 917-	HQ0147-17-C-7209	SPA Powered Cyber Health and Status Data	6/22/2017	We will research effective monitoring techniques and begin	Monitoring, Cyber Security, 0-day Protection, Darkening
I	COMBUSTION RESEARCH AND FLOW	6210 Kellers Church Road Pipersville, PA	Name: John Papp Title: Senior Research Scientist	Name: Neeraj Sinha Phone: (215) 766-1520	HQ0147-17-C-7210	Modeling of Complex Endo-atmospheric	6/22/2017	Threat signature phenomenology plays an important role in the	Three-dimensional simulation technologies, high dynamic pressure
I	CONTROL VISION INC SBIR.gov	PO Box 1547 Sahuarita, AZ 85629	Name: Dan Crawford Title: Project Manager	Name: Dan Crawford Phone: (208) 523-5506	HQ0147-17-C-7211	Sub-Scale Fly Along Sensor Package	6/22/2017	During this SBIR program, Control Vision, Inc. will develop an	associated object, fly along sensor package, navigation
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Erik Wemlinger Title: Principal	Name: David Robinson Phone: (704) 799-	HQ0147-17-C-7212	High-Resolution Measurement Techniques for	6/22/2017	Corvid Technologies will develop in-situ instrumentation to	temperature, in-situ pressure, nanosecond resolution, mm spatial
I	DANIEL H. WAGNER ASSOCIATES,	559 West Uwchlan Avenue Exton, PA 19341	Name: Dr. Joni Baker Title: Associate Phone: (757) 727-	Name: Lori Leiby Phone: (610) 280-3830	HQ0147-17-C-7213	Bayesian Inference Techniques to support System-	6/22/2017	In this Phase I SBIR, Daniel H. Wagner Associates will construct	kill assessment, post-intercept assessment, multi-sensor data fusion,
I	Decibel Research, Inc. SBIR.gov	325 Bob Heath Drive Huntsville, AL	Name: Geoff Pendleton Title: Principal	Name: Debbie Agarwal Phone: (256) 489-	HQ0147-17-C-7214	Modeling of the Attenuation Effects of the	6/22/2017	Current environment models employed in MDA simulations are not	Radar, Environment, Modeling, Ionosphere, Troposphere, Real Time,
I	Electric Drivetrain Technologies	HC64 Box3115 Moab, UT 84532 United States	Name: George Holling Title: Technical	Name: Fred Stone Phone: (435) 259-5500	HQ0147-17-C-7215	High Performance Actuators for Solid Propulsion Control	6/22/2017	The US Missile Defense Agency is seeking to develop innovative	actuator, high temperature, bearings, rotary, linear,

I	FREENT TECHNOLOGIES, INC.	PO Box 5365 Huntsville, AL 35814	Name: Michael Guthrie, Ph. D. Title: Principal	Name: Herbert Fluhler Phone: (256) 651-	HQ0147-17-C-7216	State-Vector Density Functional (SVDF) Method for	6/22/2017	Measuring and characterizing the post-intercept state of a	Lethality Assessment, Post-Intercept Assessment, Kill
I	GRID LOGIC INCORPORATED SBIR.gov	1555 Atlantic Blvd Auburn Hills, MI 48326	Name: Matthew Holcomb Title: Chief	Name: George Caravias Phone: (810) 728-	HQ0147-17-C-7217	Additive Manufacturing Technology for	6/22/2017	Grid Logic proposes to develop a solution for additively manufacturing	Additive manufacturing, 3D printing, beryllium replacement, additive
I	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: William Todd Phone: (256) 319-2026	HQ0147-17-C-7218	Optical Signature Modeling of Transmissive	6/22/2017	Missile Defense Agency (MDA) relies on industry standard software such	ray tracing, optics, IR, signatures
I	INNOVATIVE TECHNOLOGY INC SBIR.gov	PO Box 60007 Santa Barbara, CA 93160	Name: Ralph Tapphorn Title: VP of	Name: Howard Gabel Phone: (805) 571-	HQ0147-17-C-7219	Solid-state Additive Manufacturing of	6/22/2017	Additive manufacturing (AM) enables low-rate production of high-	Kinetic Metallization, Additive Manufacturing, Solid-state
I	Integrated Global Insights, LLC SBIR.gov	817 South Kenwood Ave Baltimore, MD	Name: Jami Ward Title: Chief Technology Officer	Name: Kevin Schoonover Phone: (240) 416-	HQ0147-17-C-7220	Advanced Hybrid Actuator Architecture for	6/22/2017	Integrated Global Insights, LLC (IGI) proposes the	Actuators, DACS, Post Boost, ACS, Rocket, Fine Control, Minimum
I	Manzo & Vetere, LLC SBIR.gov	708 W. 22nd St. Tempe, AZ 85282 United States	Name: Joe Manzo Title: CEO Phone: (480) 652-	Name: Karl U Schultz Phone: (602) 639-0518	HQ0147-17-C-7221	Process to Apply Additive Manufacturing for	6/22/2017	Titan Industries has leveraged deep knowledge of AM	Additive Manufacturing, Certification, MDA, Titanium, Affordable,
I	NANOHMICS INC SBIR.gov	6201 East Oltorf St. Austin, TX 78741	Name: Christopher Mann, Ph.D. Title: Principal	Name: Michael Mayo Phone: (512) 389-	HQ0147-17-C-7222	Aft Looking Spectrometer for Plume	6/22/2017	We propose a hyperspectral imager for aft-looking wake and	Hyperspectral, reentry vehicles, plume, wake, emission lines
I	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Andrew Portune, Ph.D. Phone: (724) 483-	Name: Gena Johnson Phone: (724) 483-3946	HQ0147-17-C-7223	Cyber Health and Status Data Collection via	6/22/2017	Cybersecurity is one of the greatest challenges of the twenty-first	missile defense M&S Enterprise, federated systems, non-federated
I	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jennifer Steinhauser Title: Engineer	Name: Dr. William Brower Phone: (256) 665-	HQ0147-17-C-7224	Innovative Ways to Streamline Scenario	6/22/2017	nou Systems, Inc. (nSI) proposes a Streamlined Scenario Integration	Modeling and Simulation, Ballistic Missile Defense System,
I	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jason Trolard Title: Senior Engineer	Name: Dr. William Brower Phone: (256) 665-	HQ0147-17-C-7225	Aft Looking Spectrometer for Plume	6/22/2017	nou Systems, Inc. (nSI) proposes the analysis and design of aft facing	Wake, Plume, Reentry, Spectroscopy, Computational Fluid

I	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Dr. Joshua Wilson Title: Senior	Name: Dr. William Brower Phone: (256) 665-	HQ0147-17-C-7226	Sub-Scale Fly Along Sensor Package	6/22/2017	nou Systems (nSI) proposes the Sub-scale Low Observable Fly	Sensors, Software Defined Radio, Ballistic Missile Defense System,
I	NOUR, LLC SBIR.gov	1500 Sheridan RD Wilmette, IL 60091	Name: Dr. Abbas Haddadi Title: Engineer	Name: Dr. Manijeh Razeghi Phone: (847) 467-	HQ0147-17-C-7227	Radiation Hardened Interceptor LWIR	6/22/2017	The aim is to demonstrate that Type-II InAs/GaSb	Type-II, InAs/GaSb, Superlattice, Radiation, Image Sensor.
I	NU TREK INC SBIR.gov	16955 Via Del Campo San Diego, CA	Name: James Asbrock Title: Director,	Name: Miriam Rauch Phone: (858) 472-6889	HQ0147-17-C-7228	Radiation Hardened Interceptor Seeker	6/22/2017	A key requirement for a sensor in an interceptor seeker is to continue to	DROIC, ROIC, FPA, rad hard, EPR Filter, strained layer superlattice, LWIR,
I	OPTIMAL SYNTHESIS INC. SBIR.gov	95 First Street Los Altos, CA 94022	Name: Dr. K. Menon Title: Chief Scientist Phone: (650) 559-	Name: Dr. K. Menon Phone: (650) 559-8585	HQ0147-17-C-7229	Novel Nonlinear Algorithms for Improving IMU	6/22/2017	Novel algorithms for improving the performance of IMU are	Inertial Measurement Unit, Inertial Navigation System, Advanced IMU
I	Opto-knowledge Systems, Inc.	19805 Hamilton Ave Torrance, CA	Name: Nahum Gat, Ph.D., PE Title: President	Name: Ms. Linda Papermaster Phone: (310) 756-	HQ0147-17-C-7230	Decision Algorithm for PIA SBIR.gov	6/22/2017	The MDA system receives information from multiple sensors in	Decision framework, Measure of effectiveness, Kill
I	Opto-knowledge Systems, Inc.	19805 Hamilton Ave Torrance, CA	Name: Nahum Gat, Ph.D., PE Title: President	Name: Ms. Linda Papermaster Phone: (310) 756-	HQ0147-17-C-7231	EO/IR Fly-along sensor package SBIR.gov	6/22/2017	We propose an autonomous sensor package that can	Discrimination, Target objects field, Fly-along sensors package,
I	OPTIMIZATION TECHNOLOGIES, INC.	2241 17th Street Boulder, CO 80302 United States	Name: Benjamin Thengvall Title: VP of	Name: James Kelly Phone: (303) 447-3255	HQ0147-17-C-7232	Employing Optimization to Streamline	6/22/2017	A simulation optimization tool can exploit existing BMDS	simulation optimization, scenario generation, process re-engineering
I	PeopleTec, Inc. SBIR.gov	4901-D Corporate Drive Huntsville, AL	Name: William Sommers Title: Director	Name: Marsha H Latham Phone: (256) 319-	HQ0147-17-C-7233	Intercept Debris Modeling for Non Hit-to-Kill Missile	6/22/2017	The objective of the proposed effort is to develop an approach for	modeling, simulation, intercept debris, fragmentation
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Dr. Wenjian Wang Title: Principal	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7234	Synthetic Inline Generation of Modeled	6/22/2017	To address the MDAs need for an innovative, low-cost process to	Simulation environments, software acceleration, hardware
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Pedram Boghrat, Ph.D. Title: Research	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7235	Real-Time Ionospheric and Tropospheric	6/22/2017	To address the Missile Defense Agency's (MDAs) need for	Radio, ionosphere, ionospheric, troposphere,

I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Dr. Shilpa Pradhan Title: Group Leader	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-17-C-7236	Locking Adhesive Dispensing onto Threaded	6/22/2017	To address the MDA need for tooling and processes for repeatable	Loctite, liquid locking compounds
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Mr. Kang Lee Title: Principal Scientist, Mechanical	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-17-C-7237	Robotic Bonding System SBIR.gov	6/22/2017	To address the MDA need for a repeatable manufacturing process	Solid-state stir welding, Advanced manufacturing,
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: David Oakes Title: Principal Research Scientist	Name: B. David Green Phone: (978) 689-	HQ0147-17-C-7238	Ground-based Characterization of High Altitude	6/22/2017	Physical Sciences Inc. (PSI) proposes to utilize a ground-based	high altitude, plume, signature, model, oxygen atom,
I	Propulsion Science & Technology Inc	370 E. Maple Ave Langhorne, PA 19047	Name: Margaret W Taylor Title: President	Name: Margaret W Taylor Phone: (267) 276-	HQ0147-17-C-7239	Modeling of Complex Endo-atmospheric	6/22/2017	This Phase I SBIR proposal describes the development of a hybrid	reentry vehicle, modeling and simulation, angle of
I	QmagiQ, LLC SBIR.gov	22 Cotton Road Nashua, NH 03063 United States	Name: Mani Sundaram Title: CEO &	Name: Axel Reisinger Phone: (603) 821-3092	HQ0147-17-C-7240	Radiation Hardened SLS FPAs For	6/22/2017	QmagiQ, LLC proposes to partner with The Charles Stark Draper	strained layer superlattice, radiation resistance, radiation
I	Qunav LLC SBIR.gov	324 Sudduth Cir NE Fort Walton	Name: Andrey Soloviev Title: Principal	Name: Andrey Soloviev Phone: (740) 541-	HQ0147-17-C-7241	Transform-Domain Mechanization for Software-Based	6/22/2017	QuNav proposes to develop a TTransform-domain INS	Inertial navigation, GPS-denied navigation, transform-domain INS
I	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Dr. Hamed Soroush Title: Senior Security	Name: Ms. Catherine Mekler Phone: (408) 990-	HQ0147-17-C-7242	Cyber Health and Status Data Collection	6/22/2017	We propose to develop an extensible, distributed, highly	cybersecurity, cyberhealth, modeling and simulation, data
I	SAN DIEGO COMPOSITES, INC. SBIR.gov	9220 Activity Road San Diego, CA 92126	Name: Quinn McAlister Title: Principal	Name: Christine Benzie Phone: (858) 751-	HQ0147-17-C-7243	Additive Manufacturing for Affordable Missile	6/22/2017	AM components are not currently being utilized to their full potential	additive manufacturing, certification, qualification,
I	Solid State Ceramics, Inc. SBIR.gov	200 Innovation Boulevard State College, PA	Name: Dr. Safakcan Tuncdemir Title: Principal	Name: Cathy A Brooke Phone: (570) 320-	HQ0147-17-C-7244	High Performance Actuators for Solid Propulsion Control	6/22/2017	The intent of this program is to develop precision controlled high	Direct drive actuator, High temperature compliance, Multi Path
I	Sonoma Aerospace, LLC SBIR.gov	400 Breezewood Dr. Geyserville, CA	Name: Rich Schroeder Title: President	Name: Judith Voigt Phone: (707) 529-9999	HQ0147-17-C-7245	High Performance Actuators for Solid Propulsion Control	6/22/2017	Sonoma Aerospace will leverage prior work on high performance pintle	Long duration, EM actuation, Physics based model, Phase change

I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Raphael Panfili Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7246	Standardized Atmosphere Generator (SAG)	6/22/2017	We intend to dramatically improve the performance of the	SAG, EO/IR, RF, atmosphere, background, trajectory,
I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Matthew Braunstien Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7247	Database and Numerical Procedures for	6/22/2017	Over many data collection campaigns, a large number of	plumes, chemistry, signatures, spectra, kinetics, mechanism,
I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Hoang Dothe Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7248	Vis/IR Atmospheric Tool (VISIRAT)	6/22/2017	MDA Model and Simulation capabilities include Core Truth	Visible, Infrared, Atmosphere, Radiance, Scene, Model and
I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Neil Goldstein Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7249	Multiple Line of Sight Aft-Viewing Spectrometer	6/22/2017	This work addresses the design, development, and testing of a spectral	Spectrometer, Space-Based, Aft-Viewing, Wakes, Plumes, Reentry
I	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Timothy Deschenes Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7250	Fast Running Re-Entry Vehicle (RV) Wake Signature	6/22/2017	The flight environment conditions encountered by re-entry vehicles	hypersonic, reentry, wake, EO/IR signature, RF signature, modeling,
I	Synectic Research And Analysis, Inc.	6700 Odyssey Dr. Huntsville, AL 35806	Name: David Koenitzer Title: Physicist	Name: Loren Dickerson Phone: (256) 705-	HQ0147-17-C-7251	Optical Signature Modeling of Transmissive	6/22/2017	The purpose of this effort is to demonstrate the viability of	Target, transmissive, materials, optical, ray-trace, signatures,
I	STILMAN ADVANCED STRATEGIES,	3773 Cherry Creek North Drive, Suite 575	Name: Dr. Vlad Yakhnis Title: VP Science &	Name: Dr. Boris Stilman Phone: (303) 717-	HQ0147-17-C-7252	Innovative Ways to Streamline Scenario	6/22/2017	The present day ground test for the Ballistic Missile Defense (BMD) is	Not provided
I	Systems & Materials Research	11525 Stonehollow Drive Austin, TX 78758	Name: Dr. David Irvin Title: Director of	Name: Dr. Malcolm Prouty Phone: (512) 535-	HQ0147-17-C-7253	Reduction in Variability in Liquid Locking	6/22/2017	Liquid locking compounds (LLCs) are often applied to	Liquid Locking Compound (LLC), Threaded Fasteners,
I	TOYON RESEARCH CORPORATION	6800 Cortona Drive Goleta, CA 93117	Name: Charlene Ahn, Ph.D. Title: Senior Analyst	Name: Ms. Marcella Lindbery Phone: (805) 968-	HQ0147-17-C-7254	System-level Post Intercept Assessment	6/22/2017	When targeting an enemy threat, it is very important to know how	PHD filter, particle filter, Bayesian network, physics-based
I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Yoojeong Kim Title: Principal Investigator	Name: Ms. Collette Jolliffe Phone: (978) 856-	HQ0147-17-C-7255	Special Tooling and Processes for Repeatable	6/22/2017	Not provided	Not provided

I	Truventic LLC SBIR.gov	1209 W. Gore St. Orlando, FL 32805 United States	Name: Chris Fredricksen Title: Principal	Name: Robert Peale Phone: (407) 256-9884	HQ0147-17-C-7256	Radiation Hardened Interceptor Seeker	6/22/2017	We propose a means of mitigating the effects of radiation damage in long	SLS, superlattice, LWIR, gamma radiation damage, minority carrier
I	Integrated Solutions For Systems, Inc.	P.O. Box 6250 Huntsville, AL 35813	Name: Dr. Robert Daily Title: Principal	Name: Dr. Glenn Rolader Phone: (770) 344-	HQ0147-17-C-7257	Physics-Enhanced Navigators for Un-Aided Inertial	6/22/2017	Integrated Solutions for Systems, Inc. (IS4S), with the Auburn University	
II	KT Engineering	238 Business Park Boulevard Madison, AL	Name: David B. Sisk Title: President Phone: (256) 461-	Name: Richard Webb Title: CFO Phone: (256) 461-	HQ0147-17-C-7301	Low-Cost, Green Propellant, Rocket Engine	1/9/2019	Our innovation is a green-propellant, rocket engine that provides a	Plug Cluster, Aerospike, Pintle, Green Propellant
II	Microwave Packaging Technology,	2501 East Chapman Ave Fullerton, CA	Name: Rick Sturdivant Title: CEO	Name: Rick Sturdivant Phone: (310) 980-	HQ0147-17-C-7302	Affordable Active Phased Array Sensor Systems-	11/19/2018	The US Department of Defense (DoD) procures phased arrays and	Phased Array, Radar, Digital Receiver, Open Architecture
II	Ultramet SBIR.gov	12173 Montague Street Pacoima, CA	Name: Victor M Arrieta Title: Senior	Name: Craig Ward Phone: (818) 899-0236	HQ0147-17-C-7303	Lightweight Hybrid Ablator/Aerogel Insulator for SM-3	11/14/2020	In the Phase II project, aerogel-filled foam will be utilized behind	ballistic missile defense, interceptor, solid rocket motor (SRM), exit cone,
II	Princeton Infrared Technologies,	9 Deer Park Drive Suite J-5 Monmouth	Name: Martin Ettenberg Title: President	Name: Martin Ettenberg Phone: (609) 917-	HQ0147-17-C-7304	InGaAs SWIR Seeker Sensor System for a	2/12/2019	An uncooled Shortwave Infrared (SWIR) imaging system will be	Focal Plane Array (FPA), Imagers, Shortwave Infrared (SWIR), Indium
II	SAN DIEGO COMPOSITES, INC. SBIR.gov	9220 Activity Road San Diego, CA 92126	Name: Megan Caprio Title: Principal	Name: Mr Robert Kolozs Phone: (858) 751-	HQ0147-17-C-7306	Weight Optimized Mitigation to Direct Effects of	12/7/2018	The intent of the Phase I was to develop a LPS for large composite missile	Filament Wound, Hybrid TPS/LPS, Thermal Protection System,
II	OPTIMIZATION TECHNOLOGIES , INC.	2241 17th Street Boulder, CO 80302 United States	Name: Benjamin Thengvall Title: Vice President	Name: James Kelly Phone: (303) 447-3255	HQ0147-17-C-7307	BMDS Uncertainty Quantification SBIR.gov	5/18/2020	Uncertainty quantification (UQ) can be performed with	uncertainty quantification, simulation optimization,
II	TELAZTEC SBIR.gov	15 A Street Burlington, MA 01803	Name: Douglas Hobbs Phone: (781) 229-	Name: James Nole Phone: (781) 229-9905	HQ0147-17-C-7308	AR Nano-Textures For Cool Running Optics In Multiple	5/15/2018	The proposed Second Phase II Project will adapt and scale	Anti-Reflection, AR, High Energy Lasers, Fiber Interfaces, Nano-
II	Triton Systems, Inc. SBIR.gov	200 Turnpike Road Chelmsford, MA 01824	Name: Anant Singh Title: Principal Investigator	Name: Rose Weinberg Phone: (978) 250-	HQ0147-17-C-7309	Multi-Mode AT Sensor SBIR.gov	12/4/2018	Triton Systems proposes to develop advanced methodologies for	Anti-tamper, sensor, electromagnetic side channel, EM-SCA

II	CONTROL VISION INC SBIR.gov	6825 East Outlook Drive Tucson, AZ 85756	Name: Dan Crawford Title: Project Manager	Name: Daniel Crawford Phone: (208) 523-	HQ0147-17-C-7310	Advanced Sensors for Anchoring Rocket Motor	12/21/2018	This Phase II program is seeking debris ejection data during the post	solid rocket debris measurement, microbolometer
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803-3304	Name: Rainer Dressler Title: Principal	Name: Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7311	Database-Driven Discrete Debris Signature Model	12/11/2018	In this effort, Spectral Sciences, Inc. and subcontractors Corvid	Missile defense, solid rocket motor, chuff debris, solid rocket
II	First RF Corporation SBIR.gov	5340 Airport Blvd. Boulder, CO 80301 United States	Name: Anthony Jensen Title: Senior RF	Name: Jeanne Hill-Jurik Phone: (303) 449-	HQ0147-17-C-7312	Lightweight Communication Equipment for	12/4/2018	Traditional forward-looking sensors reside near the nose of the	Seeker, hypersonic, radar, railgun, kill vehicle, antenna, high
II	SAN DIEGO COMPOSITES, INC. SBIR.gov	9220 Activity Road San Diego, CA 92126	Name: Megan Caprio Title: Principal	Name: Christine Benzie Phone: (858) 751-	HQ0147-17-C-7314	Filament Wound Resin Transfer Molded	10/18/2018	San Diego Composites (SDC) is developing a toroidal, composite	Toroidal, composite, overwrap, pressure, vessel, titanium,
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Vladimir Esterkin Title: Principal	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7315	Two Dimensional Ambient RF Field Integrated Sensor	11/16/2018	Addressing the MDA's need for an integrated circuit-based	MAGFET, Thin film, Fully depleted silicon-on-insulator, Sensor,
II	TDA Research, Inc. SBIR.gov	12345 W. 52nd Ave. Wheat Ridge, CO	Name: Michael Diener Title: Principal	Name: John Wright Phone: (303) 940-2300	HQ0147-17-C-7316	Highly Stable Carbon Fiber Composite	11/18/2018	Ballistic missile defense (BMD) systems use carbon cloth - phenolic	Abaltive insulator, Carbon fiber composite, Polyarylacetylene
II	Radiation Monitoring Devices, Inc.	44 Hunt Street Watertown, MA 02472-4699	Name: Harish Bhandari Title: Senior Scientist	Name: Joanne N Gladstone Title: PMO	HQ0147-17-C-7317	Conformal Multilayered Passivation for	4/30/2019	The unique electronic properties of periodically-arranged	Conformal coating, InAs/GaSb Type-II SLS, passivation,
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0147-17-C-7318	Techniques for Anchoring Debris Models SBIR.gov	5/2/2019	Target vehicles are designed to be threat representative in the	Exo-atmospheric, plume, signatures, global optimization
II	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Daniel Butts Title: Materials Engineer	Name: Timothy McKechnie Phone: (256) 851-	HQ0147-17-C-7319	Green Monopropellant Thruster TRL	6/19/2019	Replacing hydrazine in missile defense applications has	Green propellant, AF-M315E, Hydrazine replacement, Advanced
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0147-17-C-7321	Techniques for Anchoring Debris Models SBIR.gov	6/25/2019	IERUS is suggesting a program to test a (fuel) liquid engine, and	Global optimization, signatures, plume, tailoring, measurement

II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Raphael Panfili Title: Principal	Name: Marsha J. Fox Phone: (781) 273-4770	HQ0147-17-C-7323	Inline Threat Generation for Modeling and	6/7/2019	We intend to create a software tool that allows for real time modeling of	EO/IR, plume, signature, trajectory, and inline
II	Innosense Llc SBIR.gov	2531 West 237th Street Torrance, CA	Name: Raymond Winter Phone: (310) 530-	Name: Kisholoy Goswami Phone: (310) 530-	HQ0147-17-C-7324	Lithium Oxyhalide Battery Separator Material	6/26/2019	The targeted materials chemistry for battery separators should be	Lithium oxyhalide batteries, Flexible ceramic separator,
II	NUTRONICS, INC. SBIR.gov	1851 Lefthand Cir. Ste G Longmont, CO	Name: Curtis Vogel Title: Principal Scientist	Name: Jeffrey Barchers Phone: (303) 530-	HQ0147-17-C-7325	High Energy Laser Requirements, Analysis, and	7/18/2019	Nutronics, Inc. proposes to develop a modeling and simulation tool, the	High Energy Laser, Atmospheric Propagation, Adaptive
II	GRAF RESEARCH CORPORATION	1112 Brook Circle Blacksburg, VA 24060	Name: Jonathan Graf Title: Chief Engineer	Name: Jonathan Graf Phone: (540) 808-7378	HQ0147-17-C-7326	Irrefutable Tamper Logging through FPGA Key	9/6/2019	Graf Research proposes to create the GR-TLogger to store tamper	tamper logging, FPGA
II	Erigo Technologies LLC SBIR.gov	P.O. Box 899 64 Main St. Enfield, NH 03748	Name: Marc Kenton Phone: (857) 239-7500	Name: William (Bill) Baschnagel	HQ0147-17-C-7327	Advanced Reserve Battery Technologies	7/20/2019	There is an ever-growing need for increased battery performance in	Thermal battery, model-based design
II	enVention LLC SBIR.gov	215 Wynn Drive Huntsville, AL 35805	Name: Terry Meacham Title: Director of	Name: Tina Barnes Phone: (256) 217-9877	HQ0147-17-C-7328	Extending OpMate - The Open Plan Management,	8/16/2019	This proposal describes an approach to further leverage state-of-the-art	defense planning, open framework, modular design, extensible
II	Stottler Henke Associates, Inc. SBIR.gov	1650 South Amphlett Blvd. Suite 300	Name: Dr. Eric Domeshek Phone: (617) 945-	Name: Nate Henke Phone: (650) 931-2700	HQ0147-17-C-7329	Cases for Automating Realistic Threat	7/24/2019	We propose to develop technology that uses Cases for Automating	Missile defense, modeling and simulation, high-fidelity
II	Archarithms, Inc SBIR.gov	401 Holmes Avenue Huntsville, AL	Name: Dr. Mark Lambrecht Title: Chief Scientist	Name: Mr. Randy Riley Phone: (256) 426-	HQ0147-17-C-7330	Open Framework Planner with Embedded	7/16/2019	The objective of this research is to design an open, modular	Defense planning, Architecture, Data sharing methodologies
II	MV Innovative Technologies LLC (DBA: Opt	711 E Monument Ave Ste 101 Dayton, OH 45402	Name: Tom Tumolillo Jr Title: Chief	Name: Susie Engle Phone: (937) 286-4819	HQ0147-17-C-7331	Intelligent Tap (InTAP) Couplers for High Power	8/1/2019	Optonicus proposes the development of a novel Intelligent High Power	High Power Fiber Laser, Fiber Tap Coupler, Phase Locking, Polarization
II	MV Innovative Technologies LLC (DBA: Opt	711 E Monument Ave Ste 101 Dayton, OH 45402	Name: Svetlana Lachinova Phone: (520) 647-	Name: Tom Tumolillo, Jr. Phone: (505) 238-	HQ0147-17-C-7332	GPU-Based Computational Platform for	7/11/2019	Optonicus proposes the development of a user-friendly graphic	High Energy Laser Beam Directors, Fiber Lasers, Optical Phased Arrays,

III	EngeniusMicro, LLC SBIR.gov	75 5th Street NW Atlanta, GA 30308 United States	Name: Dr. Michael Kranz Title: CEO	Name: Chris Heaton Phone: (404) 382-9646	HQ0147-17-C-7333	MEMS IMU Solution			
II	EngeniusMicro, LLC SBIR.gov	75 5th Street NW Atlanta, GA 30308 United States	Name: Dr. Michael Kranz Title: CEO	Name: Chris Heaton Phone: (404) 382-9646	HQ0147-17-C-7333	MEMS IMU Solutions for Missile Defense	8/15/2019	Inertial Measurement Units (IMUs) for flight systems (interceptors,	Isolation, MEMS, IMU, Accelerometer, Gyroscope, Resonator
II	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Josh Wilson Title: Engineer VII Phone: (262) 442-	Name: Dr. Brent Romine Phone: (256) 327-	HQ0147-17-C-7334	Context-Oriented In-Line Stimulation (COILS) SBIR.gov	7/24/2019	The proposed concept for Context-Oriented In-Line Stimulation (COILS)	in-line, threat, IR, RF, fidelity, modeling and simulation
II	Alphacore, Inc. SBIR.gov	398 South Mill Ave, Suite 302 Tempe, AZ 85281	Name: Esko Mikkola Title: Senior Principal Engineer	Name: Esko Mikkola Phone: (520) 647-4445	HQ0147-17-C-7335	Smart Readout Integrated Circuit for Dual Band	9/26/2019	Alphacore will develop and characterize a new digital readout	readout integrated circuit (ROIC), digital readout integrated
II	AdValue Photonics Inc SBIR.gov	3440 E Britannia Drive, Suite 190 Tucson, AZ 85706	Name: Shibin Jiang Title: President Phone: (520) 790-	Name: Shibin Jiang Phone: (520) 790-5468	HQ0147-17-C-7337	High Power Fiber Laser Tap Couplers for Phase and	8/3/2019	This project is to develop low loss bi-directional fiber tap couplers for	fiber tap coupler, fused fiber, large-mode-area (LMA) fiber, photonic
III	eSpin Technologies, Inc. SBIR.gov	7151 Discovery Drive Chattanooga, TN	Name: Jayesh Doshi Title: President Phone: (310) 530-	Name: Jayesh Doshi Phone: (310) 530-2011	HQ0147-17-C-7338	Enhancement / OSD RIF			
II	eSpin Technologies, Inc. SBIR.gov	7151 Discovery Drive Chattanooga, TN	Name: Jayesh Doshi Title: President Phone: (310) 530-	Name: Jayesh Doshi Phone: (310) 530-2011	HQ0147-17-C-7338	Lithium Oxyhalide Battery Separator Material	7/19/2019	eSpin Technologies will design the scale up machine to produce	Separator, Ceramic oxide, nanofiber, polymer, electrolyte,
II	Idaho Scientific LLC SBIR.gov	199 N Capitol Blvd Boise, ID 83702 United States	Name: Dale Reese Title: President Phone: (208) 596-	Name: Dale Reese Phone: (208) 596-2248	HQ0147-17-C-7339	Secure Protocol Unalterable Data (SPUD) Phase II	7/31/2019	Idaho Scientific proposes the development of Secure Protocol	Encryption, Log, Security
II	Binergy Scientific Inc. SBIR.gov	196 Sterling Dr Bountiful, UT 84010	Name: Dr. Vojtech Svoboda Phone: (505) 767-	Name: Martina Svoboda Phone: (256) 714-	HQ0147-17-C-7340	Novel nanostructure anode and	9/26/2019	Thermal batteries are single discharge reserve batteries that provide	thermal battery, anode, cathode, energy storage, electrodes, electrolyte,
II	COHESIONFORCE, INC. SBIR.gov	P.O. Box 11578 Huntsville, AL 35814	Name: David Phillips	Name: Joni Hall Phone: (256) 562-0600	HQ0147-17-C-7341	System Integration Team Environment	8/30/2019	CohesionForce proposes the development of a System Integration	knowledge management, integration

II	Senseker Engineering SBIR.gov	5383 Hollister Ave. Ste. 230 Santa Barbara, CA	Name: Kenton Veeder Title: President	Name: Kenton Veeder Phone: (805) 617-	HQ0147-17-C-7342	Smart Readout Integrated Circuit for Dual Band	8/2/2019	This proposal outlines a large-format small-pitch low-power digital pixel	ROIC, DPROIC, dual band infrared focal plane array (FPA), high
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803-3304	Name: Rainer Dressler Title: Principal	Name: Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7344	Development of a Terahertz Typing Toolkit for	7/2/2019	Proposed effort will identify promising phenomenologies and	special nuclear materials, ionospheric effects, missile defense,
II	Qortek, Inc. SBIR.gov	1965 Lycoming Creek Road Williamsport, PA	Name: Dr. Gareth Knowles Title: Principal	Name: Cathy A Brooke Phone: (570) 322-	HQ0147-17-C-7345	Advanced Space Power Management &	8/24/2019	The proposed rad hard Modular Power Controller (MPC)	Rad hard ASIC, Space Power, Power System Control, Wide Bandgap
II	APPLIED MATHEMATICS INC SBIR.gov	1622 Route 12, Box 637 Gales Ferry, CT	Name: William Browning Title: Principal	Name: William Browning Phone: (860) 464-	HQ0147-17-C-7346	Sensor Data Fusion SBIR.gov	7/17/2019	Applied Mathematics, Inc., proposes to implement and test	Particle filter, non-linear filter, missile defense, tracking, data fusion
II	TECHNOVATIVE APPLICATIONS SBIR.gov	3160 - A Enterprise Street Brea, CA 92821	Name: Yair Alon Title: Senior System Engineer	Name: James Williams Phone: (714) 996-	HQ0147-17-C-7347	Techniques for Missile Defense SBIR.gov	9/18/2019	This Phase II effort addresses improving the performance, efficiency,	Interferometer radar, coded CW waveform, phase noise, timing
II	SAN DIEGO COMPOSITES, INC. SBIR.gov	9220 Activity Road San Diego, CA 92126	Name: Megan Caprio Title: Principal	Name: Christine Benzie Phone: (858) 751-	HQ0147-17-C-7349	Rocket Motor Case for Advanced Interceptors	9/26/2019	San Diego Composites, Inc. (SDC) is proposing a program to demonstrate	rocket motor, composite, lightweight, low aspect ratio
II	TECHNOVATIVE APPLICATIONS SBIR.gov	3160 - A Enterprise Street Brea, CA 92821	Name: Dr. Eric Eckert Title: Director/Senior	Name: James Williams Phone: (714) 996-	HQ0147-17-C-7350	Development of Advanced Radar Technologies for	9/18/2019	This Phase II effort develops an electronic protection (EP) suite for	Interferometer radar, distributed aperture, adaptive digital
II	OPTICAL SCIENCES CORPORATION	P.O. Box 8291 Huntsville, AL 35808	Name: Thomas C Cantey Title: Sr. Scientist	Name: Brett Beasley Phone: (256) 922-1500	HQ0147-17-C-7401	Thermally Efficient Emitter Technology for	6/28/2019	This document presents Optical Sciences Corporation's Phase II	Infrared, projector, cryogenic, testing, scene simulation, emitter
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Fang Zhang, Ph.D. Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7402	Thermally Efficient Infrared Emitter SBIR.gov	3/20/2019	Addressing the MDAs need for a thermally efficient emitter	Infrared projector, Emitter array, Thermal management,
II	APPLIED NANO FEMTO TECHNOLOGIES	181 Stedman St. #2 Lowell, MA 01851	Name: Jarrod Vaillancourt Phone: (978) 430-	Name: Jing Chen Phone: (978) 761-4314	HQ0147-17-C-7403	Plasmonic photonic antenna enhanced mid-	6/20/2019	Two-dimensional (2-D) midwave and longwave infrared (MWIR/LWIR)	2-D MWIR LED array, plasmonic photonic antenna enhancement,

II	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Dr. Griffin Gothard Title: Senior	Name: Billy Todd Phone: (256) 319-2026	HQ0147-17-C-7404	Innovative Antenna Arrays Enabling	7/18/2019	IERUS Technologies proposes to develop a novel, conformal, non-	phased array, kill vehicle, interceptor, antenna
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Niusha Sarkhosh, Ph.D. Phone: (310) 320-	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7405	Beamforming Enhanced Antenna for a Missile	8/3/2019	To address the Missile Defense Agency need for innovative antenna	Antenna array, Multiband, Conformal, Low SWaP, Kill vehicle,
II	Systima Technologies, Inc. SBIR.gov	10809 120th Avenue NE Kirkland, WA	Name: Hunter Golden Phone: (425) 487-	Name: Taylor Banks Phone: (425) 487-4020	HQ0147-17-C-7406	System Integrated Approach for Multi Object Payload	4/11/2019	The MDA has identified that the United States must improve the	Kill Vehicle, Payload, Deployment, Dispense, Carrier Vehicle
II	LOADPATH, LLC SBIR.gov	2309 Renard Place SE Albuquerque, NM	Name: Kenneth Brunetto Phone: (505) 803-	Name: Adam Biskner Phone: (505) 331-5331	HQ0147-17-C-7407	Multi-Object Deployment System (MODS)	6/25/2019	Ballistic missile threats include the potential for complex target scenes	Reliable deployment, precision separation, dispense, payloads,
II	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440	Name: Richard Hreha Phone: (937) 320-	Name: Christopher Hemmelgarn Phone: (937) 320-	HQ0147-17-C-7408	Low-Cost, Graded, Multi-function Thermal	3/2/2019	Global proliferation of ballistic missiles, with ever increasing	Kinematic reach, Thermal protection systems, High-
II	Peregrine Falcon Corporation	1051 Serpentine Lane, Ste 100 Pleasanton, CA	Name: Mr. Robert Hardesty Phone: (925) 461-	Name: Mr. Robert Hardesty Phone: (925) 461-	HQ0147-17-C-7409	Interceptor MLMI Thermal Protection	6/22/2019	Under Phase I Peregrine has successfully demonstrated the ability	Thermal protection system, high temperature materials,
II	INTEVAC PHOTONICS, INC. SBIR.gov	3560 Bassett Street Santa Clara, CA	Name: Michael Jurkovic Phone: (408) 496-	Name: Moncia Weathers-Fields Phone: (408) 496-	HQ0147-17-C-7410	Low Light Short Wave Infrared Focal Plane Arrays	5/15/2019	Intevacs Phase II objectives are the following: 1)	SWIR, DNVS, DI2, L3D, TE-photocathode, high-resolution-imaging-
II	BFE Acquisition Sub II, LLC SBIR.gov	12930 Morris Trail Colorado Springs, CO 80908	Name: Dr. Stephen Gaalema Phone: (719) 593-	Name: Scott MacIntosh Phone: (719) 593-	HQ0147-17-C-7411	Low Light Short Wave Infrared Focal Plane Arrays	6/25/2019	Current large format focal plane array (FPA) imaging sensors for	infrared, APD, ROIC, FPA, NIR, RHBD, MDA
II	ENGIN-IC, INC. SBIR.gov	1721 W PLANO PKWY STE 121 Plano, TX 75075	Name: Steve Nelson Phone: (972) 332-5000	Name: Chris Ison Phone: (972) 332-5000	HQ0147-17-C-7412	Solid State High Power Amplifier for	5/22/2019	In the Phase 1 program, ENGIN-IC studied the key technologies to	GaN, K-Band, SSPA, Custom MMIC, Efficiency, Affordavle
II	INNOWAVE, INC SBIR.gov	4 Russell Rd Acton, MA 01720 United States	Name: Yusuke Tajima Phone: (978) 314-	Name: Yusuke Tajima Phone: (978) 314-	HQ0147-17-C-7413	Solid State High Power Amplifier for	6/19/2019	InnoWave Inc. proposes to demonstrate a prototype of a solid	High-Power Solid-State Amplifier, Power Combining, Graceful

II	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Bryce Devine Phone: (256) 726-4816	Name: Deborah Phipps Phone: (256) 726-	HQ0147-17-C-7414	An Improved Materials Damage Model to Predict	4/2/2019	Computational methods are used to interpret the signature of the debris	Multi-Physics Simulations, Peridynamics, Damage
II	Tanner Research, Inc. SBIR.gov	825 S. Myrtle Ave. Monrovia, CA 91016	Name: Prakash Koonath Phone: (626) 471-	Name: Robert Glatt Phone: (805) 320-3626	HQ0147-17-C-7415	Detection of Corrosion using RF emissions	7/17/2019	Corrosion is a ubiquitous phenomenon causing the degradation and	Corrosion, Passive Intermodulation, NDE, Inspection, NDT,
II	D'Angelo Technologies, LLC SBIR.gov	2685 Cevennes Terrace Beavercreek, OH	Name: Joseph D'Angelo Phone: (937) 271-	Name: Maurissa DAngelo Phone: (216) 650-	HQ0147-17-C-7416	Non-Destructive Testing Methods for Detecting Red	3/30/2019	DAngelo Technologies, LLC (D5T) successfully conducted research to	hand held tester, Red Plague detection, wire integrity testing with
II	Tier 1 Performance Solutions, LLC	100 E. Rivercenter Blvd Suite 100 Covington, KY	Name: Dustin Shell Phone: (859) 663-2114	Name: Terence Andre Phone: (859) 663-	HQ0147-17-C-7417	Simulated Challenge for Operational	3/21/2019	Training systems assist Warfighters in learning and developing	gameful experience, serious games, ballistic missile defense,
II	SA Photonics, Inc. SBIR.gov	120 Knowles Dr. Los Gatos, CA 95032	Name: Dr. Michael Browne Phone: (408) 348-	Name: Andrea Singewald Phone: (970) 778-	HQ0147-17-C-7418	Command and Control Human-to-Machine Interface	4/9/2019	Operationally, ballistic missile defense is a very challenging activity,	Augmented Reality, C2BMC, human-to-machine interface, HMI,
II	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Ronald Fernandes, PI, PhD Phone: (979) 260-	Name: Jason Ogle Phone: (979) 260-5274	HQ0147-17-C-7419	Intuitive User Interface Technology	3/30/2019	The adoption of Human-Machine Interface (HMI) technologies for BMDS	Human Machine Interface, Virtual and augmented Reality,
II	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Mr. Sean Guarino Phone: (617) 491-	Name: Yvonne Fuller Phone: (617) 491-3474	HQ0147-17-C-7420	Remediation for Adaptive Missile Planners through	6/25/2019	The Missile Defense Agency (MDA) has invested significant	Missile Defense Planning, Game-Based Training, Mixed-Initiative
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Jason Keen Phone: (256) 319-2026	Name: Billy Todd Phone: (256) 319-2026	HQ0147-17-C-7421	Improved Track Accuracy for Missile	6/26/2019	The Ballistic Missile Defense System (BMDS) relies heavily on radar	particle filter, radar track filter, sequential Monte Carlo, parameter
II	RESERVOIR LABS INC SBIR.gov	632 Broadway, Suite 803 New York, NY	Name: Paul Mountcastle Phone: (212) 780-	Name: Melanie Peters Phone: (212) 780-	HQ0147-17-C-7422	Improved Track Accuracy for Missile	4/3/2019	In this proposal, Reservoir Labs introduces an innovative	Ballistic Missile Defense, radar, optical tracking, ballistic tracking,
II	REACTIVE METALS INTERNATIONAL	340 East Church Rd King of Prussia, PA	Name: Phillip Martellaro Phone: (610) 279-	Name: Bernard Kosowski Phone: (610) 279-	HQ0147-17-C-7423	Reactive Nanocomposite Materials for	9/16/2017	This effort is aimed to increase lethality of kinetic energy warheads	Nanocomposite, kinetic warhead, enhanced lethality,

II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0147-17-C-7424	UltraLow Weight Hot Gas Valve for Long Duration	6/18/2019	The Missile Defense Agency is seeking innovative	SDACS ACS, SM3, ACS, Solid Propellant, Controllable Solid
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Mr. Wenjian Wang, Ph.D. Phone: (310) 320-	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-17-C-7425	Bayesian Evolutionary Analysis with	5/4/2019	To address the Missile Defense Agency (MDA) need for cognitive	Target recognition; Target classification; Cognitive computing;
II	EpiSys Science, Inc. SBIR.gov	12234 Boulder View Dr. Poway, CA 92064	Name: Bo Ryu Phone: (858) 805-5608	Name: Bo Ryu Phone: (858) 805-5608	HQ0147-17-C-7426	RF-SCORPiOn: RF-Sensing COgnitive Radio PlatfOrm	6/19/2019	The United States Aegis Weapon System (AWS) uses the Link16	Spectrum sensing, signal classification, interference analyzer,
II	UES, Inc. SBIR.gov	4401 Dayton-Xenia Road Dayton, OH 45432	Name: Dr. HeeDong Lee Phone: (937) 426-	Name: Mr. Rick Weddle Phone: (937) 426-	HQ0147-17-C-7427	Development of Novel Hybrid UHTC Composites	3/19/2019	This Phase II SBIR program will develop a technical foundation for	Cladding, UHTC composites, Top-Down process, Nozzle, DACS,
II	Advratech SBIR.gov	714 E. Monument Ave. Dayton, OH 45402	Name: Dr. James Schmitz Phone: (937) 705-	Name: Mr. Tim Sparling Phone: (937) 412-	HQ0147-17-C-7428	Advanced Cognition Processing and	6/26/2019	A strong need exists to protect the US, its deployed forces and	MDA, Tracking, Detection, Missile, Aegis
II	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	Name: Victoria Mcdermott Title: System	Name: Teddy Kidd Phone: (703) 522-4032	HQ0147-17-C-7429	Automatic Test and Analysis (ATA) Tool SBIR.gov	4/2/2019	Given the complexity of current and future systems, advanced	Automated Testing, Analysis, Simulation, Test Objective,
II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Daniel Chitwood Title: Principal	Name: Tracy Williams Phone: (405) 410-	HQ0147-17-C-7430	Innovative Solutions for Improving Discrete	3/23/2019	The primary objective of this Small Business Innovation Research	Post intercept debris, Hyper-velocity impact, Radar, Electro-optical
II	Triton Systems, Inc. SBIR.gov	200 Turnpike Road Chelmsford, MA 01824	Name: Anant Singh Title: Principal Investigator	Name: Rose Weinberg Phone: (978) 250-	HQ0147-17-C-7431	Anti-Tamper Technology for Missile Defense	7/5/2019	Triton Systems proposes to develop zero power advanced sensors, for	Protection, zero power sensors
II	TOYON RESEARCH CORPORATION	6800 Cortona Drive Goleta, CA 93117	Name: Charlene Ahn, Ph.D. Title: Senior Analyst	Name: Ms. Marcella Lindbery Phone: (805) 968-	HQ0147-17-C-7432	Sensor Data Fusion SBIR.gov	3/26/2019	Toyon proposes to develop a track filter that exploits stochastic	Track filter, moving targets, sequential Monte Carlo, multiple
II	Gloyer-Taylor Laboratories Inc. SBIR.gov	112 Mitchell Blvd Tullahoma, TN 37388	Name: Zachary Taylor Title: Vice-President	Name: Paul Gloyer Phone: (931) 455-7333	HQ0147-17-C-7434	UCDS Propulsion Modeling SBIR.gov	7/18/2019	History has repeatedly shown that combustion instability is the greatest	UCDS, oscillations, unsteady, combustion instability, propulsion,

II	Arete Associates SBIR.gov	P.O. Box 2607 Winnetka, CA 91396	Name: Dr. Jason Seely Phone: (303) 651-	Name: Michael Onstott Phone: (520) 770-	HQ0147-17-C-7435	Active Sensor Technologies for Interceptor	2/13/2019	We propose here a low-SWAP, multi-sensor system to exploit a	Missile defense; multi-sensor; advanced sensors; low-SWAP
II	Arete Associates SBIR.gov	P.O. Box 2607 Winnetka, CA 91396	Name: Dr. Gregory Fetzer Title: Director, SBIR	Name: Jodee Mhoon Phone: (571) 255-4051	HQ0147-17-C-7436	Wide Area Unresolved Target Detection and	4/16/2019	Arete proposes to develop, demonstrate and transition software	Track-before-detect
II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Stephen Hummel Title: Principal	Name: Tracy Williams Phone: (405) 410-	HQ0147-17-C-7437	Improvements to the BMDS Hit-to-Kill Lethality	4/23/2019	The proposed work improves modeling impact and sensor	targets, tearing, high-fidelity computational physics, virtual crack
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803-3304	Name: Dr. Bridget Tannian Title: Principal	Name: Robert Sundberg Phone: (781) 273-	HQ0147-17-C-7438	Comprehensive Optical Post-Processing Tool	7/9/2019	Spectral Sciences, Inc. (SSI), in collaboration with Corvid	Missile defense, post-intercept debris, sensors, emissivity, first
II	Space Information Laboratories,	2260 South Meredith Lane Santa Maria, CA	Name: Edmund Burke Title: CEO	Name: Edmund Burke Phone: (805) 925-	HQ0147-17-C-7439	Guidance, Navigation and Control Algorithms	8/13/2019	Space Information seeks to develop open, modular, reconfigurable,	Avionics, Reduced, Size, Weight, Power, Autonomous, Destruct,
I	Archarithms, Inc SBIR.gov	401 Holmes Avenue NE Huntsville, AL	Name: Dr. Mark Lambrecht Phone: (256) 763-	Name: Mr. Randy Riley Phone: (256) (256)	HQ0147-17-C-7501	Artificial Scene Generator SBIR.gov	9/14/2017	Archarithms will develop a technology capable of generating pre-planned	modular, electromagnetic sensor testing, miniaturization,
I	BLAZETECH CORPORATION SBIR.gov	29B Montvale Ave. Woburn, MA	Name: Dr. Hartmut Legner Title: Senior Scientist	Name: N. Albert Moussa Phone: (781) 759-	HQ0147-17-C-7502	Thermophysical Property Characterization	9/14/2017	BlazeTech is pleased to provide a new, innovative approach to	Composite materials, decomposition properties, high-
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Pete Woods Title: Principal Investigator	Name: David Robinson Phone: (704) 799-	HQ0147-17-C-7503	Artificial Scene Generator SBIR.gov	9/14/2017	Corvid proposes the development of a physics-based Artificial	Flight Test Targets, Radar Modeling
I	EDWARD POPE DR SBIR.gov	31304 Via Colinas, Suite 102 Westlake Village,	Name: Mr. Thomas Rosengren Title: Director,	Name: Mr. Michael Bailey Phone: (818) 991-	HQ0147-17-C-7504	Rayon Replacement for High Temperature	9/14/2017	MATECH will leverage modeling capabilities developed for PAN-	carbon fibers, ceramic matrix composite, high temperature materials,
I	Electric Drivetrain Technologies	HC64 Box3115 Moab, UT 84532 United States	Name: Dr. George Holling Title: Technical	Name: Fred Stone Phone: (435) 259-5500	HQ0147-17-C-7505	Programmable Signal Generator Module SBIR.gov	9/14/2017	The Department of Defenses (DoD) need for smaller and more	Signal generator, random signal, electronic beacon,

I	GENERAL SCIENCES INC SBIR.gov	205 Schoolhouse Road Souderton, PA	Name: Peter Zavitsanos Title: President	Name: Evelyn Downs Phone: (215) 723-8588	HQ0147-17-C-7506	Rayon Replacement for High Temperature	9/14/2017	General Sciences, Inc. (GSI) is proposing the study and evaluation of	Non-rayon carbon fibers, Lyocell, low conductivity composites, high
I	Integration Innovation, Inc. SBIR.gov	689 Discovery Drive, Bldg. 1, Suite 500	Name: Tim Johnson Title: Principal Investigator/PM	Name: Marsha Wells Phone: (256) 270-4872	HQ0147-17-C-7507	Thermophysical Property Characterization	9/14/2017	i3 proposes to develop and implement a new time-efficient technique	Interceptors, thermal protection system, kinetic decomposition,
I	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087	Name: Leslie Weller Title: Senior Research Engineer	Name: Brian Sullivan Phone: (610) 964-9000	HQ0147-17-C-7508	Rayon Replacement for High Temperature	9/14/2017	Materials Research & Design, Inc. (MR&D) proposes program to	composite, rayon fiber, fiber-reinforced composite, finite
I	MAXENTRIC TECHNOLOGIES , LLC SBIR.gov	2071 Lemoine Avenue Suite 302 Fort Lee, NJ 07024	Name: Elya Kapelyan Title: Senior Member of	Name: Houman Ghajari Phone: (858) 272-	HQ0147-17-C-7509	Programmable Signal Generator Module SBIR.gov	9/14/2017	MaXentric proposes the MaX-PrISM, which exploits a novel	Software Defined Radio (SDR), Digital Signal Processing (DSP),
I	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Mr. William Davis Title: Principal	Name: Ms. Gena Johnson Phone: (724) 483-	HQ0147-17-C-7510	Miniaturized Programmable Signal Generator	9/14/2017	Todays newer weapons systems are being designed with small	Beacons, Telemetry Radio, Programmable Signal Generation,
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Fang Zhang, Ph.D. Title: Principal	Name: Gordon Drew Phone: (310) 320-3088	HQ0147-17-C-7511	Multispectral Modular Artificial Scene Generator	9/14/2017	Physical Optics Corporation (POC) proposes to develop a	modular, electromagnetic sensor testing, miniaturization,
I	Plus Designs, Inc. SBIR.gov	1024 E. Lancaster Ave. Rosemont, PA	Name: Mr. Joseph Pluscauskis Title: President	Name: Mr. Joseph Pluscauskis Phone: (484) 380-	HQ0147-17-C-7512	Metallized Ceramic-Based Structural	9/14/2017	This proposal will specifically seek to demonstrate metallized	Design and analysis, modeling and simulation, advanced
I	Quantum Dimension, Inc. SBIR.gov	18672 Florida St., Suite 302D Huntington Beach,	Name: Dr. Michael Enright Title: Principal	Name: Ms. Julie Isenberger Phone: (714) 893-	HQ0147-17-C-7513	MultiCore Telemetry Processing Module	9/14/2017	We propose MultiCore Telemetry Processing Module (MC-TPM). Our	Miniaturization, Programmable Component, Modular,
I	Synectic Research And Analysis, Inc.	6700 Odyssey Dr. Huntsville, AL 35806	Name: Richard Dill Title: Senior Physicist Phone: (256) 705-	Name: Loren Dickerson Phone: (256) 705-	HQ0147-17-C-7514	Thermophysical Property Characterization	9/14/2017	An innovative concept for measuring thermophysical	Thermophysical Properties, Partially decomposing materials,
I	TOUCHSTONE RESEARCH LABORATORY	The Millennium Centre Triadelphia, WV	Name: Dwayne Morgan Title: Senior	Name: Brian Joseph Phone: (304) 547-5800	HQ0147-17-C-7515	Acetate Fiber Reinforcements for High	9/14/2017	Touchstone Research Laboratory (TRL) has identified acetate fibers	Ablation, Acetate, Carbon, Cellulose, Composites, Fiber,

I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Brad Pindzola Title: Principal Investigator	Name: Mrs. Collette Jolliffe Phone: (978) 856-	HQ0147-17-C-7516	Thermophysical Property Characterization	9/14/2017	Triton Systems proposes to develop and demonstrate the	Thermophysical characterization, thermal diffusivity,
I	Ultramet SBIR.gov	12173 Montague Street Pacoima, CA	Name: Victor Arrieta Title: Senior Research Engineer	Name: Craig Ward Phone: (818) 899-0236	HQ0147-17-C-7517	Low-Density Ablator-Filled Foam	9/14/2017	In previous exit cone liner work and heat shield fabrication,	ballistic missile defense, interceptor, exit cone, throat, insulator,
II	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Brad Rosenberg Title: Senior Scientist	Name: Mark Felix Phone: (617) 491-3474	HQ0147-18-C-7001	Modeling Operator Reasoning and	1/11/2020	As the United States makes strides in developing, testing, and	Human-in-Control (HIC) modeling, Operator Modeling, Simulated
II	OPTIMIZATION TECHNOLOGIES, INC.	2241 17th Street Boulder, CO 80302 United States	Name: Benjamin Thengvall Title: Vice President	Name: James Kelly Phone: (303) 447-3255	HQ0147-18-C-7002	OptDef - Extensions for High Performance	1/21/2020	To effectively characterize the Ballistic Missile Defense System	High Performance Computing, Simulation Optimization, Simulation
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Julia Dupuis Title: Principal Research Scientist	Name: B. David Green Phone: (978) 689-	HQ0147-18-C-7003	Multi-Functional, High Performance, IM-Compliant,	4/18/2020	Physical Sciences Inc. has successfully demonstrated the	Insensitive Munition, Slow Cook-off, Fast Cook-off, Bullet Impact, Solid
II	Arete Associates SBIR.gov	P.O. Box 2607 Winnetka, CA 91396	Name: Zandy Williams Phone: (703) 413-	Name: Greg Fetzer Phone: (520) 581-8660	HQ0147-18-C-7004	Dual Mode Seeker/Sensor - LADAR/RF	3/8/2020	The Global Positioning System (GPS) remains a primary source of	GPS, GPS denial, navigation, guidance, radar
II	Noetic Strategies, Inc. SBIR.gov	1300 Meridian Street Suite 2200 Huntsville, AL	Name: Jeremy Kackley Title: Cyber	Name: Eric Tompkins Phone: (256) 489-4921	HQ0147-18-C-7005	Vulnerability Analysis for Systems Security	9/5/2020	VASST seeks to secure large systems, overcoming challenges	systems engineering, cyber, modeling, simulation, systems
II	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Rockville, MD	Name: Hongmei (Julia) Deng Title: Senior	Name: Mr. Mark James Phone: (301) 294-	HQ0147-18-C-7006	AiMNET: User-Configurable Autonomous	9/26/2019	Intelligent Automation, Inc. (IAI) proposes to develop AiMNET, a User-	Self-Establishing Network, User-Defined Architecture, Network
II	Trusted Semiconductor Solutions Inc.	11670 Fountains Drive Maple Grove, MN	Name: Allan Hurst Phone: (763) 458-3551	Name: Stephanie Pusch Phone: (612) 618-	HQ0147-18-C-7008	Radiation Mitigating System-in-Package	1/9/2020	Trusted Semiconductor Solutions will demonstrate how high-	radiation circumvention, system in package, nuclear event detector,
II	Eospace Inc. SBIR.gov	6222 185th Ave. NE Suite 100 Redmond, WA	Name: David Moilanen Title: Principal	Name: Chung-Ping Chien Phone: (425) 869-	HQ0147-18-C-7009	Robust Phase Modulators and Polarization	1/14/2021	A variety of ruggedized Lithium Niobate integrated optic devices	Integrated optics, High power fiber lasers, fiber laser arrays, fiber

II	ROBERT A. RICHWINE, LLC SBIR.gov	704 W. Roller Coaster Road Tucson, AZ 85704	Name: Robert Richwine Phone: (520) 400-	Name: Robert Richwine Phone: (520) 400-	HQ0147-18-C-7010	Thermally Efficient Emitter Technology for	3/11/2020	We introduce a concept and a design for a high-speed, high-temperature	thermal emitter, scene projector, infrared, hardware in the loop,
II	Welkin Sciences, LLC SBIR.gov	2 N. Nevada Ave Colorado Springs, CO 80903	Name: Dr. Todd Reinking Phone: (719) 520-	Name: Dennis Wagner Phone: (719) 520-	HQ0147-18-C-7011	Configurable Link Test Set (CoLTS) Jamming	5/1/2020	Under this Phase II SBIR effort Welkin Sciences will design and	jammer emulator, frequency-follower jammer, multi-carrier,
II	BLACK RIVER SYSTEMS COMPANY INC	162 Genesee Street Utica, NY 13502	Name: Peter Shea Title: Principal Investigator	Name: Milissa Benincasa Phone: (315) 732-	HQ0147-18-C-7012	New and Innovative Overhead	5/1/2020	Our objective is to develop and demonstrate an	Enterprise SRM, OPIR Tasking, Radar Tasking, Ballistic missile defense,
II	CONTROL VISION INC SBIR.gov	PO Box 1547 Sahuarita, AZ 85629	Name: Comron Moradi Title: Program	Name: Dan Crawford Phone: (208) 523-5506	HQ0147-18-C-7013	Sub-Scale Fly Along Sensor Package	5/6/2020	During this SBIR program, Control Vision, Inc. will develop an	associated object, fly along sensor package, navigation, CubeSat
II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0147-18-C-7014	Affordable Extinguishable Divert and	6/4/2020	The Missile Defense Agency (MDA) is seeking innovative	Extinguishable Propulsion, Controllable Propulsion, Solid
III	SCITEC, INC. SBIR.gov	100 Wall Street Princeton, NJ 08540	Name: Brian Pasquini Title: Scientist	Name: James Lisowski Phone: (609) 921-	HQ0147-18-C-7120	RADIANT NEBULA II	8/7/2020		
I	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: David Strobel Phone: (858) 332-0700	Name: David Strobel Phone: (858) 332-0700	HQ0147-18-C-7200	High Speed Missile to Missile RF Communications	1/5/2019	Space Micro will provide an innovative solution for high speed missile-to-	communications, interceptor, cross link, radio, RF comm, secure,
I	Cesiumastro Inc. SBIR.gov	301 Tavish Trail Austin, TX 78738 United States	Name: Shey Sabripour Phone: (512) 818-	Name: Shey Sabripour Phone: (512) 818-	HQ0147-18-C-7201	High Speed Missile to Missile Communications	1/5/2019	Missile-to-missile high speed communication can greatly enhance the	missile communication, phased array, software defined radio, RF
I	INDIANA MICROELECTRONICS, LLC	1281 Win Hentschel Blvd. West Lafayette, IN	Name: Eric Hoppenjans Phone: (765) 237-	Name: Steve Cuppy Phone: (434) 386-2251	HQ0147-18-C-7202	High Speed Missile to Missile Communications	5/5/2018	Indiana Microelectronics is proposing an alternative design for a	High Speed, Missile, Communications, RF, Data Link,
I	Archarithms, Inc SBIR.gov	401 Holmes Avenue NE Huntsville, AL	Name: Dr. Mark Lambrecht Phone: (256) 763-	Name: Mr. Randy Riley Phone: (256) 426-	HQ0147-18-C-7203	Resource Utilization Prediction and	5/5/2018	Develop a capability to predict run time and network resource	Execution time, run time, federated simulations, modeling &

I	SimVentions, Inc. SBIR.gov	100 Riverside Parkway Suite 123 Fredericksburg, VA	Name: Mr. Michael Brown Phone: (540) 372-	Name: Mr. Stephen Goss Phone: (540) 372-	HQ0147-18-C-7204	Resource Utilization Prediction and	1/5/2019	The Missile Defense Agency (MDA) utilizes federated Hardware-in-	Modeling and simulation, objective simulation framework,
I	WARPIV TECHNOLOGIES, INC.	5230 Carroll Canyon Road, Suite 306	Name: Craig Lammers Phone: (858) 605-	Name: Teresa Hernandez Phone: (858) 605-	HQ0147-18-C-7205	Resource Utilization Prediction and	1/5/2019	The Missile Defense Agency (MDA) seeks technology to predict	Execution time, run time, federated simulations, modeling &
I	FISHEYE SOFTWARE, INC. SBIR.gov	Mill & Main Building Two, Suite 400	Name: William (Bill) Schley Phone: (508) 654-	Name: Ted Selig Phone: (978) 461-0100	HQ0147-18-C-7206	Intelligent Dynamic Data Logging SBIR.gov	1/5/2019	Data logging of complex simulations can easily overwhelm computer	Intelligent Dynamic Data Logging, Artificial Intelligence Data
I	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Dr. Paul Pazandak Phone: (408) 990-	Name: Ms. Catherine Mekler Phone: (408) 990-	HQ0147-18-C-7207	ConnexLogger: Intelligent Data Logging for MDA	1/5/2019	MDA M&S systems generate a significant amount of simulation	Logging, simulation, Objective Simulation Framework, metadata,
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Mr. David Hitchcock Phone: (310) 320-	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-18-C-7208	Runtime Intelligent Dynamic Data	5/5/2018	To address the MDAs need for intelligent dynamic data logging	Objective based logging, Situational logging, Objective Simulation
I	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Mr. Curt Wu Phone: (617) 491-3474	Name: Mr. Mark Felix Phone: (617) 491-	HQ0147-18-C-7209	Predictive Adaptable Logger (PAL) SBIR.gov	5/6/2018	Large federated simulations are inherently complex to	Simulation, federation, machine learning, deep learning, sequence
I	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Dr. Paul Pazandak Phone: (408) 990-	Name: Ms. Catherine Mekler Phone: (408) 990-	HQ0147-18-C-7210	Semantic, Real-Time, Streaming Data Compression	1/5/2019	We propose to explore a number of targeted approaches for data	modeling and simulation, data distribution service,
I	Accellogic, LLC SBIR.gov	1634 Bonaventure Blvd Weston, FL 33326	Name: Juan Gonzalez Title: President	Name: Juan Gonzalez Phone: (954) 888-	HQ0147-18-C-7211	Industrial-quality acceleration of MDA's missile	1/5/2019	MDA's Objective-Simulation-Framework (OSF) is a crucial	compression, MDA, OSF, acceleration, missile defense systems,
I	Antara Teknik LLC SBIR.gov	5233 Castlereigh Ct Granite Bay, CA	Name: MEHMET YAVUZ ADALIER Phone: (916) 834-	Name: MEHMET YAVUZ ADALIER Phone: (916) 622-	HQ0147-18-C-7212	High Performance Cognitive Run Time Data	1/5/2019	The Missile Defense Agency's (MDA) integrated, layered,	in-line lossless data compression, RLE, Linear Prediction, cognitive,
I	BTS Software Solutions, LLC SBIR.gov	6200 Old Dobbin Lane Columbia, MD	Name: Dunling Li Phone: (301) 547-5956	Name: Dan Cummings Phone: (703) 459-	HQ0147-18-C-7213	Run Time Data Compression Techniques	5/5/2018	BTS Software Solutions proposes a real-time statistical lossless data	lossless compression, entropy coding, multimodal

I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Rockville, MD	Name: Dr. Sergey Voronin Phone: (301) 294-	Name: Mr. Mark James Phone: (301) 294-	HQ0147-18-C-7214	High Performance Parallel Multi Format	5/5/2018	Military applications require data logging in different formats. More	Lossless compression, encoding, parallel processing, high
I	MAINSTREAM ENGINEERING CORPORATION	200 Yellow Place Rockledge, FL 32955	Name: Dr. Josh Sole Phone: (321) 631-3550	Name: Mr. Michael Rizzo Phone: (321) 631-	HQ0147-18-C-7215	High Performance Cooled Seeker Window	1/5/2019	Infrared (IR) windows operating in the environment	aerodynamic heating, hypersonic, infrared window, cooling, high
I	Radiation Monitoring Devices, Inc.	44 Hunt Street Watertown, MA 02472	Name: Yimin Wang Phone: (617) 668-6801	Name: Kanai Shah Phone: (617) 668-6801	HQ0147-18-C-7216	Transparent Silicone Carbide Seeker Windows	1/5/2019	Missile seekers are precision guided munitions that are a key	SiC, silicon carbide, transparent ceramic, missile seeker,
I	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Robert Nichols Phone: (724) 483-	Name: Eli Polovina Phone: (724) 483-3946	HQ0147-18-C-7217	Advanced Optic Materials for Endo-Atmospheric	1/5/2019	The MDA requires EO/IR window technology that can perform and endure	EO window, IR, NIR, MWIR, thermo-mechanical, thermal-
I	CERANOVA CORPORATION SBIR.gov	P. O. Box 278 Hopkinton, MA 01748	Name: Mark Parish Phone: (508) 460-0300	Name: Marina Pascucci Phone: (508) 460-	HQ0147-18-C-7218	Endo-atmospheric Electro-Optical/Infrared	1/5/2019	CeraNova conformal spinel windows that will provide enhanced	Seeker window, magnesium aluminate spinel, spinel, conformal
I	Ross-Hime Designs Inc SBIR.gov	1847 laurel Ave. Saint Paul, MN 55104	Name: Mark Rosheim Phone: (651) 280-	Name: Mark Rosheim Phone: (651) 280-	HQ0147-18-C-7219	Advanced Lightweight, Low Cost, High-g	1/5/2019	Ross-Hime Designs, Inc. (RHD) Minneapolis, Minnesota is responding	Gimbal, robotics, robot, gimbals, joints, joint, u-joint, UAV
I	LOADPATH, LLC SBIR.gov	2309 Renard Place SE Albuquerque, NM	Name: Ken Brunetto Phone: (505) 803-0983	Name: Adam Biskner Phone: (505) 331-5331	HQ0147-18-C-7220	LoadPath Enhanced Gimbal System SBIR.gov	5/6/2018	Expanded operating environments, evolving interceptor platforms,	Gimbal, High-g, Seeker, Flexure, Robust, Automated Assembly,
I	CRM Solutions, Inc. SBIR.gov	4092 Memorial Parkway SW Huntsville, AL	Name: Dr. Jeb Orr Phone: (256) 479-1716	Name: Les Hall Phone: (256) 885-1577	HQ0147-18-C-7221	An Advanced High-g Spherical Seeker Gimbal Proposal	1/5/2019	CRM Solutions, Inc proposes to develop a robust, lightweight, low	Seeker assembly, precision pointing, pneumatic control,
I	EngeniusMicro, LLC SBIR.gov	228 Holmes Avenue Huntsville, AL	Name: Dr. Mike Kranz Phone: (256) 261-	Name: Chris Heaton Phone: (404) 382-9646	HQ0147-18-C-7222	Advanced High-g Accelerometers in Small Form Factor	5/5/2018	Missile defense applications currently expose inertial	MEMS Accelerometer, MEMS IMU, Harsh Environment, Resonant
I	International FemtoScience, Inc. SBIR.gov	PO Box 50980 Nashville, TN 37205	Name: Dr. David Kerns Phone: (615) 530-	Name: Dr. Jim Davidson Phone: (615) 530-	HQ0147-18-C-7223	Advanced High-g Accelerometers in Small Form Factor	5/5/2018	International FemtoScience will develop and	MEMS, Accelerometer, IMU, Inertial Measurement Unit, High-

I	OEWAVES, INC. SBIR.gov	465 N. Halstead St. Pasadena, CA	Name: Andrey Matsko Phone: (626) 351-	Name: Debra Coler Phone: (626) 351-4230	HQ0147-18-C-7224	An Oscillation-mode Radio Frequency	5/5/2018	OEwaves Inc. in collaboration with the UCLA Mesoscopic Optics	Accelerometers, IMU, MEMS IMU, chip scale accelerometer
I	NANOHMICS INC SBIR.gov	6201 East Oltorf St. Austin, TX 78741	Name: Christopher Mann, Ph.D. Phone: (512) 389-	Name: Michael Mayo Phone: (512) 389-	HQ0147-18-C-7225	Advanced High-g Accelerometers in Small Form Factor	5/5/2018	Nanohmics proposes to develop a novel high-G-capable chip-scale	accelerometers; sensors; micro-electronics; Inertial Measurement
I	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Dr. Daniel Butts Phone: (256) 851-	Name: Timothy McKechnie Phone: (256) 851-	HQ0147-18-C-7227	Highly Vectorable, Multi-Pulse Rocket Motor Nozzle to	1/5/2019	Fielding of advanced missile defense interceptors is strongly	Solid rocket motor, TSRM, SM-3 Block IIB, nozzle, tantalum
I	optoXense, Inc. SBIR.gov	3343 Chartwell St San Ramon, CA 94583	Name: Mehrdad Pakmehr Phone: (678) 848-	Name: George Lu Phone: (925) 577-0980	HQ0147-18-C-7228	Developing an Adaptive TVC System for High-G	5/5/2018	Missile interceptors employ various propulsion control	Algorithms, Missile, Interceptor, Rocket Propulsion, Propulsion
I	In Space, L.L.C. SBIR.gov	3495 Kent Avenue West Lafayette, IN 47906	Name: B.J. Austin Phone: (765) 775-2107	Name: Amy Austin Phone: (765) 775-2107	HQ0147-18-C-7229	Advanced Digital Solid Propellant Thruster Array for	5/5/2018	With adversaries continuing to advance ballistic missile	Digital thruster array, DACS, divert and attitude control system,
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Dr. Daniel Chitwood Phone: (256) 705-	Name: David Robinson Phone: (704) 799-	HQ0147-18-C-7230	Radar Cross Section Testing for Modeling and	5/5/2018	Corvid Technologies presents the following proposal to the Missile	Radar Cross Section, Signal Processing, Data Compression, Scattering
I	Andro Computational Solutions LLC	Beeches Professional Campus	Name: Dr. Svetlana Foulke Phone: (315) 334-	Name: Thomas Benjamin Phone: (315) 334-	HQ0147-18-C-7231	Radar Cross Section Testing for Modeling and	5/5/2018	The objective of the proposal is to conduct theoretical research and	Electromagnetic, RF Sampling, Radar Cross Section Test, Fast
I	Lynntech Inc. SBIR.gov	2501 Earl Rudder Freeway South College Station, TX	Name: Dr. Michael Martin Phone: (979) 764-	Name: Crystal Leon Phone: (979) 764-2200	HQ0147-18-C-7232	SRPA: Scalable Rocket Performance with	5/13/2018	Lynntech will determine the feasibility of several scaled-up rocket engine	Scalable, Combustion, AF-M315E, Rocket, Propellant, Scale-up,
I	Science and Technology Applications,	530 New Los Angeles Avenue, Suite 115	Name: Tedi Ohanian Phone: (805) 529-3800	Name: Lisa Ohanian Phone: (805) 529-3800	HQ0147-18-C-7233	Green Liquid Propellant Upper Stage Engine for	1/5/2019	Our vision for a "green" upper stage propulsion is a non-toxic multi-use	green propellant, propulsion, upper stage, mass fraction, HAN, non-
I	INNOVATIVE TECHNOLOGIES INTERNATIONAL	220 Jefferson Ridge Parkway Lynchburg, VA	Name: Lew Walton Phone: (434) 239-1979	Name: Anne Austin Phone: (434) 239-1979	HQ0147-18-C-7234	Green Propellant Rocket Engine SBIR.gov	5/5/2018	Standard monopropellants like hydrazine are highly	green propellant combustion, additive manufacturing, AF-

I	Exquadrum, Inc. SBIR.gov	12130 Rancho Road Adelanto, CA	Name: Kevin Mahaffy Phone: (760) 530-	Name: Eric Schmidt Phone: (760) 530- 7922	HQ0147-18-C- 7235	Novel Energetic Propellant Technology for	1/5/2019	During the proposed Phase I research and development effort, the	upper stage, liquid propellant, engine, thrust, low toxicity
I	Edwards, Carl SBIR.gov	10743 Matinal Circle San Diego, CA	Name: Carl Edwards Phone: (858) 437- 1276	Name: Carl Edwards Phone: (858) 437- 1276	HQ0147-18-C- 7236	3D Printed Component Packages for	5/5/2018	3D printing has existed for decades within certain manufacturing	Microelectronics, Anti- counterfeit, Obsolescence, Additive
I	EngeniusMicro, LLC SBIR.gov	228 Holmes Avenue Huntsville, AL	Name: Michael Whitley Phone: (256) 261-	Name: L. Chris Heaton Phone: (256) 261-	HQ0147-18-C- 7237	3D Printed Component Packages for	1/5/2019	This proposal seeks to develop a 3D printing process to print a 3D	additive manufacturing, anti-tamper, 3d printing, microelectronics, anti-
I	OPTOMECH, INC. SBIR.gov	3911 Singer Blvd NE Albuquerque, NM	Name: Dr. Kurt Christenson Phone: (651) 641-	Name: David Ramahi Phone: (505) 761- 8250	HQ0147-18-C- 7238	3D Printed Component Packages for	5/5/2018	Additive Manufacturing, more popularly referred to as 3D printing, has	Printed Electronics, Semiconductor Packaging, 3D Printing,
I	Interlog Corporation SBIR.gov	1295 N Knollwood Circle Anaheim, CA	Name: Nathanael Kim Phone: (714) 529-	Name: Justin Kwon Phone: (714) 529- 7808	HQ0147-18-C- 7239	Universal Additive Manufacturing Packaging (UAMP)	5/5/2018	The MDA is seeking a new additive manufacturing (AM)	microelectronics, anti- counterfeit, obsolescence, additive
I	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: David Strobel Phone: (858) 332- 0700	Name: David Strobel Phone: (858) 332- 0700	HQ0147-18-C- 7240	3D Printed Microscale Radiation	1/5/2019	State-of-the-art COTS microelectronics are often found to be	radiation, shielding, microcircuit, package, 3D printed, HAENS,
I	SI2 TECHNOLOGIES , INC.	267 Boston Road North Billerica, MA 01862	Name: Dr. Erik Handy Phone: (978) 495-	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-18-C- 7241	Low SWAP, 3D Printed Radiation Shielding For	1/5/2019	SI2 Technologies, Inc. (SI2) proposes to develop 3D-printed,	Additive manufacturing, 3D printing, radiation, shield, graded-Z,
I	NEXGENSEMI CORPORATION SBIR.gov	27130A Paseo Espada, Suite 1405 San Juan	Name: Michael Zani Phone: (949) 422- 6625	Name: Michael Zani Phone: (949) 422- 6625	HQ0147-18-C- 7242	3D Printed Microscale Radiation Shield	5/5/2018	Over the past 30 years, additive manufacturing has evolved from	Radiation hard, electronics, packaging, shielding, single-event
I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: John Lovaasen Phone: (978) 856-	Name: Collette Jolliffe Phone: (978) 856-	HQ0147-18-C- 7243	3D Printed Microscale Radiation Shield	5/5/2018	The purpose of this proposal is to develop an additive	Additive Manufacturing (AM), Radiation Shielding, Missile
I	ROCK WEST COMPOSITES, INC. SBIR.gov	1602 Precision Park Lane San Diego, CA	Name: Keith Loss Phone: (858) 537- 6260	Name: Keith Loss Phone: (858) 537- 6260	HQ0147-18-C- 7244	Radio Frequency Transparent Thermal	1/5/2019	The exterior surfaces of high speed missiles and other air structures	Radome, TPS, thermal protection system, band pass filter, multi-

I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Dr. Vince Baranauskas Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-18-C- 7245	Radio Frequency Transparent, Nanoporous	1/5/2019	Through the proposed MDA SBIR program, NanoSonic will design	Thermal Protection System, Radome, Radio Frequency Transparent,
I	Spectral Energies, LLC SBIR.gov	5100 Springfield Street Dayton, OH 45431	Name: Sivaram Gogineni Phone: (937) 266-	Name: Dr. Sukesh Roy Phone: (937) 902-	HQ0147-18-C- 7246	High Performance MEMS Inertial Measurement Unit	1/5/2019	The proposed project aims to pursue an innovative approach of	Missile Systems, Avionics, Microelectronics,
I	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: David Strobel Phone: (858) 332- 0700	Name: David Strobel Phone: (858) 332- 0700	HQ0147-18-C- 7247	Miniaturized COTS- based Avionics for Missile Systems	5/5/2018	We propose to demonstrate intelligent techniques and	Commercial, COTS. microelectronics, miniaturize, avionics,
I	Intelligent Fiber Optic Systems Corporation	2363 Calle Del Mundo Santa Clara, CA	Name: Behzad Moslehi Phone: (408) 565-	Name: Behzad Moslehi Phone: (408) 565-	HQ0147-18-C- 7248	Innovative Integrated Optical Driver for Ultra-	5/5/2018	MDA requires novel technological solutions to cost-efficiently keep	Photonic integrated circuit, optical gyroscope, inertial
II	TOYON RESEARCH CORPORATION	6800 Cortona Drive Goleta, CA 93117	Name: Charlene Ahn, Ph.D. Title: Senior Analyst	Name: Ms. Marcella Lindbery Phone: (805) 968-	HQ0147-18-C- 7301	System-level Post Intercept Assessment	3/8/2020	Performing post- intercept assessment (PIA) is challenging due	Post-intercept assessment, track- before-detect, fusion,
II	FREENT TECHNOLOGIES , INC.	PO Box 5365 Huntsville, AL 35814	Name: Michael Guthrie, Ph. D. Title: Principal	Name: Herbert Fluhler Phone: (256) 651-	HQ0147-18-C- 7302	State-Vector Density Functional Method for Kill	2/7/2020	Measuring and characterizing the post- intercept states of a	Lethality Assessment, Post-Intercept Assessment, Kill
II	Alpha Star Corporation SBIR.gov	5150 E. PACIFIC COAST HWY LONG BEACH, CA	Name: FRANK ABDI Title: Chief Technical Officer	Name: KAY MATIN Phone: 562-961- 7827	HQ0147-18-C- 7303	Additive Manufacturing for Affordable Missile	3/8/2020	The efforts will leverage advanced multi-scale material modeling, multi-	1) Additive Manufacturing of Metals, 2) GENOAs
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Mr. Kang Lee Title: Principal Scientist, Mechanical	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-18-C- 7304	Robotic Bonding System SBIR.gov	2/8/2020	To address the MDAs need for a repeatable manufacturing process	Solid-state stir welding, Advanced manufacturing,
II	Physical Optics Corporation SBIR.gov	1846 West 205th Street Torrance, CA	Name: Dr. Shilpa Pradhan Title: Group Leader	Name: Mr. Gordon Drew Phone: (310) 320-	HQ0147-18-C- 7305	Locking Adhesive Dispensing onto Threaded	2/12/2020	To address the Missile Defense Agency (MDA) need for tooling and	Loctite, liquid locking compounds, fastener
II	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Yoojeong Kim Title: Principal Investigator	Name: Ms. Collette Jolliffe Phone: (978) 856-	HQ0147-18-C- 7306	Special Tooling and Processes for Repeatable	2/14/2020	Threaded fastening systems in vibrating environments require a	Loctite, liquid locking compounds, fasteners, secondary locking,

II	Electric Drivetrain Technologies	HC64 Box3115 Moab, UT 84532 United States	Name: George Holling Title: Technical	Name: Fred Stone Phone: (435) 259-5500	HQ0147-18-C-7307	High Performance Actuators for Solid Propulsion Control	4/30/2020	The Missile Defense Agency seek solid propellant, propulsion	Propulsion system, high temperature, proportional control,
II	Solid State Ceramics, Inc. SBIR.gov	200 Innovation Boulevard State College, PA	Name: Dr. Safakcan Tuncdemir Title: Principal	Name: Cathy A Brooke Phone: (570) 320-	HQ0147-18-C-7308	High Performance Actuators for Solid Propulsion Control	2/8/2020	Phase II will exit with a new and substantially test-rig validated new	Valve controller, Divert and attitude control systems, Solid-state
II	NU TREK INC SBIR.gov	16956 Via Del Campo San Diego, CA	Name: Stephen Black Title: Sr. Systems	Name: Shelley Rowland Phone: (858) 487-	HQ0147-18-C-7309	Radiation Hardened Interceptor Seeker	5/6/2020	A key requirement for IR sensors in interceptor seekers is to continue to	ROIC, IR sensor, rad hard, gamma/beta filter, LWIR, seeker, nuclear
II	Truventic LLC SBIR.gov	1209 W. Gore St. Orlando, FL 32805 United States	Name: Chris Fredricksen Title: Principal	Name: Robert Peale Phone: (407) 256-9884	HQ0147-18-C-7310	Radiation-defect mitigation in InAs/GaSb	4/29/2020	This Phase II SBIR project will advance the technical readiness level	FPA, proton irradiation, LWIR, radiation mitigation, Strained
II	Aero Thermo Technology, Inc SBIR.gov	620 Discovery Drive, NW Huntsville, AL	Name: Dr. Christian Tournes Title: Principal	Name: Ms. Wendy Wilson Phone: (256) 922-	HQ0147-18-C-7311	Fast IMU Autonomous Alignment,	5/23/2020	Accuracies of initial alignment and gyroscopic drift in the	
II	OPTIMAL SYNTHESIS INC. SBIR.gov	95 First Street Los Altos, CA 94022	Name: Dr. K. Menon Title: Chief Scientist Phone: (650) 559-	Name: Dr. Victor L. Cheng Phone: (650) 559-	HQ0147-18-C-7312	Novel Signal Processing Softwarefor	2/6/2020	Novel algorithms for improving the performance of IMU	Inertial Measurement Unit, Inertial Navigation System, Advanced IMU
II	Qunav LLC SBIR.gov	324 Sudduth Cir NE Fort Walton	Name: Andrey Soloviev Title: Principal	Name: Andrey Soloviev Phone: (740) 541-	HQ0147-18-C-7313	Prototyping of Transform-Domain INS Mechanization	5/1/2020	QuNav proposes to validate and prototype a TTransform-domain INS	GPS-denied navigation, INS algorithmic correction, motion
II	NANOHMICS INC SBIR.gov	6201 East Oltorf St. Austin, TX 78741	Name: Christopher Mann, Ph.D. Title: Principal	Name: Michael Mayo Phone: (512) 389-	HQ0147-18-C-7315	Aft Looking Spectrometer for Plume	3/8/2020	Nanohmics proposes to develop a hyperspectral imager for aft-looking	Hyperspectral, reentry vehicles, plume, wake, emission lines
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Timothy Deschenes Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-18-C-7316	Fast Running Re-Entry Vehicle Wake Signature	3/8/2020	The flight environment conditions encountered by re-entry vehicles	reentry vehicle, RV, hypersonic, reentry, wake, EO/IR signature,
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Raphael Panfili Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-18-C-7317	Standardized Atmospheric Generator (SAG)	3/8/2020	We intend to dramatically improve the performance of the	SAG, EO/IR, RF, atmosphere, background, trajectory,

II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Matthew Braunstien Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-18-C-7318	Database and Numerical Procedures for	5/3/2020	Over many data collection campaigns, a large number of	plumes, chemistry, signatures, spectra, kinetics, mechanism,
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: David Oakes Title: Principal Research Scientist	Name: B. David Green Phone: (978) 689-	HQ0147-18-C-7319	Ground-Based Characterization of High Altitude	5/1/2020	Physical Sciences Inc. (PSI) proposes to utilize a ground-based	high altitude, plume, signature, model, oxygen atom,
II	1ST EDGE LLC SBIR.gov	4088 High Mountain Rd NE Huntsville, AL	Name: Tim McCarter Title: President Phone: (256) 513-	Name: Tim McCarter Phone: (256) 513-9555	HQ0147-18-C-7320	Innovative Ways to Streamline Scenario	2/6/2020	The strategic planning and creation of test scenarios for the Missile	Automated Scenario Design, Test Case Optimization, Rules-
II	STILMAN ADVANCED STRATEGIES,	3773 Cherry Creek North Drive, Suite 575	Name: Dr. Vlad Yakhnis Title: VP Science &	Name: Vladimir Yakhnis Phone: (303) 809-	HQ0147-18-C-7321	LG Technology Innovative Research,	4/30/2020	To enhance Operational Test (OT) fidelity, increase automation,	Linguistic Geometry, adversarial reasoning, automated predictive
II	Decibel Research, Inc. SBIR.gov	325 Bob Heath Drive Huntsville, AL	Name: Geoff Pendleton Title: Principal	Name: Debbie Agarwal Phone: (256) 489-	HQ0147-18-C-7323	Modeling of the Attenuation Effects of the	5/24/2020	Current environment models employed in MDA simulations are, in	
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Hoang Dothe Title: Principal	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-18-C-7324	Vis/IR Atmospheric Tool (VISIRAT)	5/21/2020	Missile Defense Agency (MDA) Model and Simulation (M&S)	
II	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087	Name: Leslie Weller Title: Senior Research Engineer	Name: Craig Iwano Phone: (610) 964-9000	HQ0147-18-C-7334	Development of Lyocell-Based High Temperature	4/29/2020	Materials Research & Design, Inc. submits this Phase II SBIR proposal to	Composite, Rayon Fiber, Fiber-Reinforced Composite, Finite
II	Plus Designs, Inc. SBIR.gov	1024 E. Lancaster Ave. Rosemont, PA	Name: Mr. Joseph Pluscauskis Title: President	Name: Mr. Joseph Pluscauskis Phone: (484) 380-	HQ0147-18-C-7335	Metallized Ceramic-Based Structural	4/30/2020	An ideal structural insulator will not outgas, will not change	design and analysis, modeling and simulation, advanced
II	Ultramet SBIR.gov	12173 Montague Street Pacoima, CA	Name: Victor Arrieta Title: Senior Research Engineer	Name: Craig Ward Phone: (818) 899-0236	HQ0147-18-C-7336	Low-Density Ablator-Filled Foam	6/11/2020	In previous exit cone insulator development for MDA and heat shield	ballistic missile defense, interceptor, third stage rocket motor (TSRM),
II	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Dr. Andrew Portune Phone: (724) 483-	Name: Mr. Eli Polovina Phone: (724) 483-	HQ0147-18-C-7337	Miniaturized Programmable Signal Generator	4/26/2020	Todays newer weapons systems are being designed with small	programmable signal generator, beacons, ballistic missile defense

II	Integration Innovation, Inc. SBIR.gov	689 Discovery Drive, Bldg. 1, Suite 500	Name: Timothy Johnson Phone: (937) 307-	Name: Danny Tollison Phone: (256) 562-	HQ0147-18-C- 7339	Thermophysical Property Characterization	5/17/2020	Under Phase-I of MDA SBIR 16.3-021, i3 demonstrated a new	Aerothermal, ablation, Heating, Density, Decomposition, Testing,
II	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Blaine Farber Title: Principal Investigator	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0147-18-C- 7340	Innoflight Miniature End Cryptographic Unit	2/7/2020	Future MDA missions will rely heavily on constellations of Space	CubeSat high-assurance communications, Software-Defined Radio,
I	Tier 1 Performance Solutions, LLC	100 E. Rivercenter Blvd Suite 100 Covington, KY	Name: Walter Warwick Title: Director of	Name: Terence Andre Phone: (719) 213-	HQ0147-18-C- 7416	SCYTHE - Simulate CYber Threats using Hybrid	12/24/2018	Recently, there has been at least one significant cyber security event in	software agents, artificial intelligence, cyber defense training,
I	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Ron Fernandes Title: Senior	Name: Jason Ogle Phone: (979) 260- 5274	HQ0147-18-C- 7417	Advanced Cyber Threat Intelligence and Vulnerability	12/24/2018	Knowledge Based Systems, Inc. (KBSI) will design and demonstrate	Adaptive Cyber Training, Network Simulation, Inductive Game Theory,
I	Objectsecurity LLC SBIR.gov	1855 1st Ave #103 San Diego, CA 92101	Name: Ulrich Lang, PhD Phone: (650) 515-	Name: Ulrich Lang, PhD Phone: (650) 515-	HQ0147-18-C- 7418	WhizRT: Simulated Intelligent Cybersecurity Red	12/25/2018	We propose an innovative solution that includes a novel,	artificial intelligence, attack trees, cybersecurity, training,
I	EpiSys Science, Inc. SBIR.gov	12234 Boulder View Dr. Poway, CA 92064	Name: Nadeesha Ranasinghe Phone: (310) 493-	Name: Bo Ryu Phone: (858) 805- 5608	HQ0147-18-C- 7419	TACTS: Tactical Artificial Intelligence	12/24/2018	U.S. Government computer networks have seen an increase in	Gaming, Network Defense, Cybersecurity, Artificial Intelligence,
I	Vadum, Inc. SBIR.gov	601 Hutton St STE 109 Raleigh, NC 27606	Name: David Padgett Title: Senior Staff Engineer	Name: Gary Edge Phone: (919) 341- 8241	HQ0147-18-C- 7420	Techniques for Real-time Hypervelocity	12/24/2018	Vadum will develop an algorithm to generate and optimize	Hypervelocity, trajectory, predicted intercept point, HVP,
I	Numerica Corporation SBIR.gov	5042 Technology Parkway Suite 100 Fort Collins, CO	Name: Nate Monnig Title: Research Scientist	Name: Jeff Poore Phone: (970) 207- 2211	HQ0147-18-C- 7421	Techniques for Real-time Hypervelocity	12/24/2018	The Missile Defense Agency (MDA) faces the challenge of countering	Hypervelocity projectile, interceptor, real-time, closed-loop, fly-out
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Dylan Sweeney Phone: (256) 705-	Name: David Robinson Phone: (704) 799-	HQ0147-18-C- 7422	Techniques for Real-time Hypervelocity	12/24/2018	Corvid Technologies proposes to develop a real-time trajectory	6-DOF Trajectory, Global Optimization, GPU, Simulation, Neural
I	Spaceworks Enterprises, Inc. SBIR.gov	1050 Crown Pointe Parkway Atlanta, GA 30338	Name: Kevin Feld Phone: (770) 379- 8005	Name: Jordan Shulman Phone: (770) 379-	HQ0147-18-C- 7423	A Novel Approach for Optimizing HVP Fly-Out	12/24/2018	SpaceWorks Enterprises, Inc. (SEI) seeks government support for	trajectory software, optimization, intercept, fly-out, hypervelocity

I	OPTIMAL SYNTHESIS INC. SBIR.gov	95 First Street, Suite 240 Los Altos, CA	Name: Dr. Bong-Jun Yang Phone: (650) 559-	Name: Dr. Victor Cheng Phone: (650) 559-	HQ0147-18-C- 7424	Fast Algorithms for Real-Time Hypervelocity	12/24/2018	The proposed effort puts forward a novel methodology of real-	Model Predictive Control, Hypervelocity Projectile, Missile
I	Integrated Solutions For Systems, Inc.	2995 Wall Triana Hwy. Huntsville, AL	Name: Dr. Rob Daily Phone: (256) 424- 5422	Name: Dr. Glenn Rolader Phone: (770) 344-	HQ0147-18-C- 7425	Techniques for Real-time Hypervelocity	12/24/2018	Integrated Solutions for Systems, Inc., with the Auburn University GPS	Hypervelocity Gun Weapon System, Hypervelocity Projectile,
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Jim Painter Phone: (704) 799- 6944	Name: David Robinson Phone: (704) 799-	HQ0147-18-C- 7426	Hyper-Velocity Projectile (HVP) Warhead	12/24/2018	Corvid Technologies proposes to develop a process to optimize an	Ballistic Missile Defense, Hypervelocity Projectile, Lethality, Optimization,
I	Systima Technologies, Inc. SBIR.gov	10809 120th Avenue NE Kirkland, WA	Name: Charlie Jensen Phone: (425) 487-	Name: Taylor Banks Phone: (425) 487- 4020	HQ0147-18-C- 7427	Hyper-velocity Warhead with Advanced Load-	12/24/2018	Systima is proposing the development of a non- hit-to-kill warhead for	High-Density Payload, Wire EDM, 3D Printing, Impactors, Missile
I	Energetic Materials & Products, Inc.	1413 Brandi Lane Round Rock, TX 78681	Name: John Granier Phone: (512) 380- 1945	Name: Brad Bailey Phone: (512) 380- 1943	HQ0147-18-C- 7428	Hyper-Velocity Projectile (HVP) Warhead	12/24/2018	Next generation hyper velocity projectiles (HVP) are needed to enhance	Hyper velocity projectile (HVP), forward focused fragment projectiles,
I	DE TECHNOLOGIES , INC SBIR.gov	100 Queens Drive King of Prussia, PA 19406	Name: Mr. Maurice Grudza Phone: (610) 337-	Name: Mr. Robert Ciccarelli Phone: (610) 337-	HQ0147-18-C- 7429	Hyper-Velocity Projectile (HVP) Warhead	12/24/2018	We propose to develop a directional side- projecting fragment	Hypervelocity Projectile, Lethality, Warhead, Hypervelocity Gun
I	GENERAL SCIENCES INC SBIR.gov	205 Schoolhouse Road Souderton, PA	Name: Peter D Zavitsanos Title: President	Name: Peter D Zavitsanos Phone: (215) 723-	HQ0147-18-C- 7430	Hyper-Velocity Projectile (HVP) Warhead	12/24/2018	General Sciences, Inc. (GSI) and Lockheed Martin (L/M, Valley	Hyper Velocity Projectile (HVP), reactive structures, reactive
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Justin Brown Phone: (978) 689- 0003	Name: B. David Green Phone: (978) 689-	HQ0147-18-C- 7431	Low SWaP nuclear magnetic resonance	12/24/2018	Physical Sciences Inc. (PSI) in collaboration with the Northrop	Nuclear Magnetic Resonance Gyroscope, Inertial Navigation
I	NANOHMICS INC SBIR.gov	6201 East Oltorf St. Austin, TX 78741	Name: Mark Lucente, Ph.D. Phone: (512) 389-	Name: Michael Mayo Phone: (512) 389-	HQ0147-18-C- 7433	Superluminal Gyroscope for Compact IMU	12/24/2018	Nanohmics proposes a chip-scale, light-weight, low-power superluminal	Inertial measurement unit (IMU), guidance navigation and control
I	Freedom Photonics LLC SBIR.gov	41 Aero Camino Santa Barbara, CA 93117	Name: Gordon Morrison Title: Director Of	Name: Leif Johansson Phone: (805) 967-	HQ0147-18-C- 7434	Advanced High End Gyroscopes for Small Form	1/22/2019	In this program, Freedom Photonics will develop a novel,	Gyroscope, integrated photonics

I	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Phone: (707) 696-	Name: Joe Viola Phone: (916) 990-8736	HQ0147-18-C-7435	Advanced Solid Axial Stage (ASAS) with Fast	12/24/2018	The United States has fielded a layered missile defense system to	Booster, TVC, Throttling, Delta-V, Hot Gas Valve, Thruster, Interceptor
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Allan Dokhan Phone: (978) 689-0003	Name: B. David Green Phone: (978) 689-	HQ0147-18-C-7436	Advanced High Performance, High Energy Density,	12/24/2018	Physical Sciences Inc. proposes to design, develop and	Insensitive Munition (IM), Monopropellant, Bipropellant, Hazard,
I	Helicon Chemical Company LLC	3259 Progress Drive Orlando, FL 32826	Name: David Reid Title: President and CEO	Name: David Reid Phone: (321) 300-6266	HQ0147-18-C-7437	Performance optimized hierarchical	12/24/2018	Future MDA interceptors require advanced propulsion	solid propellant, specific impulse, high-performance, energy
I	Exo-Atmospheric Technologies	938 N. Griffith Rd. Oconomowoc, WI 53066	Name: Terry Hendricks Title: President	Name: Terry Hendricks Phone: (414) 243-	HQ0147-18-C-7438	Low-Drag Jet Vane Thrust Vector Control for Exo-	12/24/2018	A new type of missile defense thrust vector control system is	CMC, Jet Vane, Thrust Vector Control, Aerothermal, Ablation,
I	ASRC Federal Astronautics, LLC SBIR.gov	289 Dunlop Blvd Building 300 Huntsville, AL	Name: Stephen Cooke Title: Principal	Name: Joseph Sims Phone: (256) 562-2191	HQ0147-18-C-7439	Additively Manufactured Lightweight	12/24/2018	The selective laser melting (SLM) of Scalmalloy is proposed	Scalmalloy, Additive manufacturing, Selective laser melting,
I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Jennifer Lalli Title: PI Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-18-C-7440	Small Filament Wound Lightweight	12/25/2018	In this MDA program, NanoSonic proposed to combine our structural	Composites, Additive Manufacturing, Structures, Thoraesus
I	Peregrine Falcon Corporation	1051 Serpentine Lane, Ste 100 Pleasanton, CA	Name: Robert Hardesty Phone: (925) 461-	Name: Robert Hardesty Phone: (925) 461-	HQ0147-18-C-7441	Lightweight Structures for Future	12/24/2018	The Peregrine Falcon Corporation utilizing its proprietary technology	Sunshield/baffles, Shielding, Missiles, Beryllium Sheet
I	TOUCHSTONE RESEARCH LABORATORY	1142 Middle Creek Road Triadelphia, WV	Name: Brandon Coates Phone: (304) 547-	Name: Brian Joseph Phone: (304) 547-5800	HQ0147-18-C-7442	Lightweight Fiber Reinforced Aluminum	12/24/2018	The Missile Defense Agency is searching for innovative technologies	Fiber reinforced aluminum missile structure, metal-matrix
I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Dr. Richard Claus Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-18-C-7443	Nanofilament-Based Rad Hard Resistive	12/25/2018	NanoSonic will work with Virginia Tech nanomaterial physicists	Resistive random access memory (RRAM), metal-insulator-metal (MIM)
I	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Josh Pritts Title: Principal Investigator	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0147-18-C-7444	Nanoscale Vacuum Channel Transistor (NVCT) SBIR.gov	12/24/2018	Nanoscale Vacuum Channel Transistor (NVCT) technology has	Radiation Hardened Microelectronics, Vacuum Field Effect

I	INNOSYS, INC. SBIR.gov	2900 South Main Street Salt Lake City, UT	Name: Larry Sadwick Phone: (801) 975-7399	Name: Jennifer Hwu Phone: (801) 975-7399	HQ0147-18-C-7445	Radiation Hardened Electronics and	12/24/2018	The MDA has needs for radiation-hardened electrical components	Radiation hardened microelectronics, Solid State Vacuum Device™
I	Radiation Monitoring Devices, Inc.	44 Hunt Street Watertown, MA 02472	Name: Pijush Bhattacharya Phone: (617) 668-	Name: Kanai Shah Phone: (617) 668-6801	HQ0147-18-C-7446	Wide bandgap SiC based field effect transistor for	12/24/2018	The goal of this project is to develop basic semiconductor	Radiation-hardness, Silicon Carbide, wide bandgap, high-k
I	Nanomatronix, LLC SBIR.gov	700 Research Center Blvd Fayetteville, AR	Name: Dr. Matthew Leftwich Phone: (479) 215-	Name: Dr. Matthew Leftwich Phone: (479) 215-	HQ0147-18-C-7447	Development of Novel RAD-Hard ASICs and a	12/24/2018	The NMT/UA team propose to develop a radiation-hardened, low	Rad-Hard Null Convention Logic, RHNCL, RAD-Hard, Rad-
I	Goodman Technologies LLC SBIR.gov	9551 Giddings Av NE Albuquerque, NM	Name: William Goodman Phone: (505) 400-	Name: William Goodman Phone: (505) 400-	HQ0147-18-C-7448	Innovative, Multi-Functional Kill Vehicle Primary	12/24/2018	Referencing Pue, et.al., Missile Concept Optimization for Ballistic	kill vehicle structures, improved kinematic capability, 3D printing,
I	Gloyer-Taylor Laboratories Inc. SBIR.gov	112 Mitchell Blvd Tullahoma, TN 37388	Name: Zachary Taylor Title: Vice-President	Name: Paul Gloyer Phone: (931) 455-7333	HQ0147-18-C-7449	Compact Modular DACS SBIR.gov	12/24/2018	GTL has identified an innovative architecture for KV Divert and	Modular, DACS, interceptor, propulsion, rocket, tankage,
I	SI2 TECHNOLOGIES, INC.	267 Boston Road North Billerica, MA 01862	Name: Michael Borrelli Title: Principal	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-18-C-7450	Structurally-Integrated, Multifunctional	12/24/2018	SI2 Technologies, Inc. proposes to improve the volumetric efficiency	Volume efficiency, multifunctional structure, lightweight,
III	Welkin Sciences, LLC SBIR.gov	2 N. Nevada Ave Colorado Springs, CO 80903	Name: Dr. Todd Reinking Phone: (719) 520-	Name: Dennis Wagner Phone: (719) 520-	HQ0147-18-D-7101	CoLTS		Logical follow-on to Phase 2: HQ0147-18-C-7011	
III	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803-3304	Name: Rainer Dressler Title: Principal	Name: Robert Sundberg Phone: (781) 273-	HQ0147-18-D-7104	Advanced Hybrid Methods for Complex Target	9/20/2023	Logical follow-on to Phase 2: HQ0147-14-C-7633	
I	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Ronald Fernandes Title: Research	Name: Jason Ogle Phone: (979) 260-5274	HQ0147-19-C-7002	Integration, Verification &Validation for	5/27/2019	In order to address various issues relating to digital element	Common Digital Simulation Integration Framework, Common
I	Archarithms, Inc SBIR.gov	303 Williams Avenue Suite 131 Huntsville, AL	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 763-8781	HQ0147-19-C-7003	Element Model Framework	6/20/2020	The goal of this research is to develop a Modeling and Simulation (M&S)	Common Digital Simulation Integration Framework, Common

I	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Paul Pazandak Title: Director of	Name: Catherine Mekler Phone: (408) 990-	HQ0147-19-C-7004	ConnexSim: A Next-Generation Open Distributed	5/27/2019	We propose developing ConnexSim, a robust, performant, scalable,	Modeling and Simulation, Data Distribution Service,
I	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	Name: Victoria Mcdermott Title: System	Name: Teddy Kidd Phone: (703) 522-4032	HQ0147-19-C-7005	Element Model Framework SBIR.gov	5/27/2019	The Automated Interface Middleware Service (AIMS) solution	middleware, framework, federation, federates, distributed, connecting
I	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	Name: Victoria Mcdermott Title: System	Name: Teddy Kidd Phone: (703) 522-4032	HQ0147-19-C-7005	Element Model Framework SBIR.gov	2/9/2020	The Automated Interface Middleware Service (AIMS) solution	
I	Mentis Sciences, Inc. SBIR.gov	215 Canal Street Manchester, NH 03101	Name: John Dignam Title: President Phone: (603) 624-	Name: John Dignam Phone: (603) 624-9197	HQ0147-19-C-7006	Methodologies for Cost-Effective Measurement of	5/27/2019	To meet MDA's need for cost effective dynamic material evaluation	Carbon-carbon, Split Hopkinson Bar, Dynamic Material Properties,
I	Karagozian & Case, Inc. SBIR.gov	700 N. Brand Blvd. Suite 700 Glendale, CA	Name: Joe Magallanes Title: President &	Name: Joseph Abraham Phone: (818) 240-	HQ0147-19-C-7007	Methodologies for Cost-Effective Measurement of	5/27/2019	K&C is proposing a Phase I SBIR project to develop and	Carbon-carbon, Dynamics, Test Methodologies, Dynamic
I	Materials Sciences LLC SBIR.gov	135 Rock Road Horsham, PA 19044	Name: Devlin Hayduke Title: Engineer	Name: Samantha Gash Phone: (215) 542-	HQ0147-19-C-7008	Methodologies for Cost-Effective Measurement of	5/27/2019	Next generation high-speed missile defense systems [1] require	Carbon-Carbon Composites, high rate properties, shock
I	PROTECTION ENGINEERING CONSULTANTS	PO Box 781607 San Antonio, TX 78278	Name: Matt Barsotti Title: Senior Engineer	Name: David J. Stevens Phone: (512) 380-	HQ0147-19-C-7009	Methodologies for Cost-Effective Measurement of	5/27/2019	Explosions and high-velocity impacts can create strain rates up to	Strain rate, carbon-carbon composites, material testing,
I	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jennifer Steinhauser Title: Engineer VIII	Name: Dr. J. Brent Romine Phone: (256) 327-	HQ0147-19-C-7010	Advanced Data Management and Mining for BMDS	9/19/2019	Sherlock provides a data mining solution that automates the discovery	Big data, system performance, machine learning, data mining
I	Archarithms, Inc SBIR.gov	303 Williams Avenue Suite 131 Huntsville, AL	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 763-8781	HQ0147-19-C-7011	Advanced Data Management and Mining for BMDS	6/20/2020	Minimizes integration, testing and training; saves time and money;	Big Data, Database, NOSQL, Modeling and Simulation, Complex
I	Edaptive Computing, Inc. SBIR.gov	1245 Lyons Road Building G Dayton, OH 45458	Name: Adam Langdon Title: Principal	Name: Dr. Praveen Chawla Phone: (937) 433-	HQ0147-19-C-7012	Advanced Data Management and Mining for BMDS	5/27/2019	The MDA relies on complex simulations to test and enhance	Distributed analysis, Simulation, Big Data, Ballistic Missile Defense

I	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	Name: Struan Clark Title: Software Engineer I	Name: Teddy Kidd Phone: (703) 522- 4032	HQ0147-19-C- 7013	Advanced Data Management and Mining for BMDS	5/27/2019	Big data analysis is a critical component of product and process	Data Management Mining and Analysis Toolkit (DMMAT), Big
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Suite 190 Rockville, MD	Name: Bryan Stewart Title: Lead	Name: Mark James Phone: (301) 294- 5200	HQ0147-19-C- 7014	BSM-KD: BMDS Simulation Mining for Knowledge	5/27/2019	The Missile Defense Agency (MDA) is currently producing	Ballistic Missile Defense System (BMDS), Big Data, Data Mining, Data
I	WARPIV TECHNOLOGIES , INC.	5230 Carroll Canyon Road, Suite 306	Name: Jeffrey Steinman Title: President &	Name: Jeffrey Steinman Phone: (858) 531-	HQ0147-19-C- 7015	Model Level Integrated Simulation	5/27/2019	The DoD M&S community has embraced the	OpenUTF, WarpIV Kernel, MDEM, M&S, Composability,
I	Seed Innovations, LLC SBIR.gov	19960 Capella Drive Monument, CO	Name: M Douglas Williams Title: Principal	Name: Marlu Oswald Phone: (719) 306- 5814	HQ0147-19-C- 7016	FISA â€“Flexible Integrated Simulation	5/27/2019	Seed Innovations applies our experience in framework	Modeling and Simulation, Model Development, Reuse,
I	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Kyounggho An Title: Senior Research Engineer	Name: Catherine Mekler Phone: (408) 990-	HQ0147-19-C- 7017	ConnexCompose: A Next-Generation Simulation	5/27/2019	We propose to develop an extensible, composable, highly	Modeling and Simulation, Model Level Integration, Data
I	Rtsync Corp. SBIR.gov	6909 W Ray Rd STE 15-107 Chandler, AZ	Name: Bernard Zeigler Title: Chief Scientist	Name: Doohwan Kim Phone: (602) 334- 6649	HQ0147-19-C- 7018	Model Level Integrated Simulation	5/27/2019	We propose to develop a simulation architecture framework that enables	Discrete Event System Specification (DEVS), Modeling and Simulation
I	FIBERTEK, INC. SBIR.gov	13605 Dulles Technology Drive Herndon, VA	Name: Keith Petrillo Title: Senior Electro Optics Scientist	Name: Tracy Perinis Phone: (703) 471- 7671	HQ0147-19-C- 7019	A Versatile low- SWaP Phase Modulation Unit	5/27/2019	Phase modulation, to disrupt the coherence of a laser when applied to a	laser, high energy laser, coherent beam combining, laser
I	Eospace Inc. SBIR.gov	6222 185th Ave. NE Suite 100 Redmond, WA	Name: Suwat Thaniyavarn Title: Principal	Name: Chung-Ping Chien Phone: (425) 869-	HQ0147-19-C- 7020	Spectrally Efficient Linewidth Broadening	5/27/2019	EOSPACE proposes to develop innovative concepts and hardware	High Power Fiber Lasers, Nonlinear Optical Effects, Fiber Amplifiers,
I	AdValue Photonics Inc SBIR.gov	3440 E Britannia Drive, Suite 190 Tucson, AZ 85706	Name: Jihong Geng Title: Chief Scientist, Lasers	Name: Shibin Jiang Phone: (520) 790- 5468	HQ0147-19-C- 7021	A Fast Wavelength- Swept kHz- Linewidth Laser	5/27/2019	AdValue Photonics proposes to develop a novel modulation	Coherently beam combining, high-power fiber laser, narrow-
I	NLogic, LLC SBIR.gov	4901 Corporate Drive Suite H Huntsville, AL	Name: Neil J Miller Title: Research Engineer	Name: Tim Thornton Phone: (256) 704- 2524	HQ0147-19-C- 7024	Graphics Processing Unit for Space-based	5/27/2019	In this effort we will develop a concept for the design of a high level	The proposed fiber combiner technology can be used to develop

I	IDEAS ENGINEERING &	2350 Alamo Ave SE Suite 220 Albuquerque, NM	Name: Guillermo Alonzo Vera Rojas Title: President/CEO	Name: Guillermo Alonzo Vera Rojas Phone: (505) 933-	HQ0147-19-C- 7025	Graphics Processing Unit (GPU) for Space-	5/27/2019	The use of GPUs in space is desirable as they provide means to boost	The proposed fiber combiner technology can be used to develop
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Suite 190 Rockville, MD	Name: Bryan Stewart Title: Lead	Name: Mark James Phone: (301) 294- 5200	HQ0147-19-C- 7026	radGPU- Radiation Hardened GPU in a CubeSat	5/27/2019	Traditional CPUs are falling short to meet high performance real-	The proposed fiber combiner technology can be used to develop
I	N.P. PHOTONICS, INC. SBIR.gov	UA Science and Technology Park 9030 S. Rita Road,	Name: Xiushan Zhu Title: Director of Technology	Name: Linda Schadler Phone: (520) 799-	HQ0147-19-C- 7027	High Power Pump Signal Combiners for Next	5/29/2019	NP Photonics proposes to design and develop high power fiber	The proposed fiber combiner technology can be used to develop
I	Q-PEAK INCORPORATE D SBIR.gov	135 South Road Bedford, MA 01730	Name: Kevin Wall Title: Area Manager Phone: (781) 275-	Name: David Weatherby Phone: (978) 738-	HQ0147-19-C- 7028	Multi-function High Power Isolator SBIR.gov	5/27/2019	Q-Peak proposes a compact novel multifunction high-	Fiber Isolator, Fiber Connector, Fiber Laser, Faraday Rotator, High
I	Optical Engines, Inc SBIR.gov	2829 W Colorado Ave Colorado Springs,	Name: Donald Sipes Title: President and CEO	Name: Donald L Sipes Jr Phone: (815) 383-	HQ0147-19-C- 7029	High Power Etched Air Taper Combiner	5/27/2019	Optical Engines productized and ruggedized product line	Fiber Laser, High Power Fiber Amplifier, Directed Energy, Power
I	Srico Inc SBIR.gov	2724 SAWBURY BOULEVARD COLUMBUS, OH	Name: Sri Sriram Title: President & CEO	Name: Sri Sriram Phone: (614) 578- 0684	HQ0147-19-C- 7030	Compact, Light- weight, High Power Handling	5/27/2019	Fiber optic isolators are critical to prevent deleterious back-	fiber optic, isolator, low loss, fiber laser, high power, fiber amplifier,
I	NU TREK INC SBIR.gov	16955 Via Del Campo Suite 250 San Diego, CA	Name: James Asbrock Title: Sr. ROIC	Name: Shelley Rowland Phone: (858) 487-	HQ0147-19-C- 7031	Photon Sensitive Camera SBIR.gov	5/29/2019	The government would like to explore the applicability of LADAR to	
I	Alphacore, Inc. SBIR.gov	398 South Mill Ave, Suite 304 Tempe, AZ 85281	Name: Esko Mikkola Title: CEO Phone: (480) 494-	Name: Esko Mikkola Phone: (480) 494- 5618	HQ0147-19-C- 7032	Photon Sensitive Camera SBIR.gov	5/27/2019	Performance goals: • • High-photon sensitivity centered around	digital readout integrated circuit (DROIC), photon
I	Princeton Infrared Technologies,	9 Deer Park Drive Suite J-5 Monmouth	Name: Martin Ettenberg Title: President	Name: Martin Ettenberg Phone: (609) 917-	HQ0147-19-C- 7033	Advanced Flash III- V LADAR Camera SBIR.gov	5/28/2019	This research will develop a 128x128 on 30 Åµm pixel pitch	3D Flash LADAR, APD Arrays, APDs, Imaging
I	VOXTEL, INC. SBIR.gov	15985 NW Schendel Avenue Suite 200	Name: Andrew Huntington Title: Project	Name: Debra Ozuna Phone: (971) 223- 5646	HQ0147-19-C- 7034	Radiation- Hardened Photon- Sensitive LADAR	5/28/2019	To satisfy the need for a radiation-hardened, 1064-nm laser sensitive,	Avalanche photodiode, APD, ladar, lidar, single photon detectors, SPAD,

I	Little Prairie Services SBIR.gov	14 Dunkin Road Edgewood, NM 87015	Name: Roger X Lenard Title: CTO	Name: Roger X Lenard Phone: (505) 220-	HQ0147-19-C-7035	Advanced NPB Low Energy Beam Transport	3/4/2022	Logical follow-on to Phase II: HQ0147-13-C-7621	accelerator, linac, radio-frequency, focusing, interdigital
I	Lynntech Inc. SBIR.gov	2501 Earl Rudder Freeway South College Station, TX	Name: Michael Martin Title: Scientist II	Name: Shawn Rhodes Phone: (979) 764-	HQ0147-19-C-7036	Pulsed Helicon Onboard Exo-Atmospheric Beam	5/27/2019	Intercontinental Ballistic Missiles (ICBMs) fired at the United States can be	Neutral Particle Beam, ICBM, Plasma, Space Debris, Weapon
I	Digibeam Corporation SBIR.gov	27130A Paseo Espada, Ste 1405 San Juan	Name: Michael Zani Title: President & CEO	Name: Michael Zani Phone: (949) 422-6625	HQ0147-19-C-7037	Terawatt Enhanced Repetition Array	5/27/2019	Digibeam is presenting a novel neutral particle beam component	charged particle beam, neutral particle beam, buncher, source array,
I	Lynntech Inc. SBIR.gov	2501 Earl Rudder Freeway South College Station, TX	Name: Xuguang Li Title: Senior Scientist Phone: (979) 764-	Name: Shawn Rhodes Phone: (979) 764-	HQ0147-19-C-7038	High Power and High Energy Internal	5/27/2019	To meet the current and future power needs for space applications in	Power Density, Rechargeable Power Systems, Space Systems,
I	Wecoso, LLC SBIR.gov	6741 Brentwood DR Huntington Beach,	Name: Carl Kirkconnell Title: President	Name: Carl Kirkconnell Phone: (714) 222-	HQ0147-19-C-7039	Hybrid Battery-Supercapacitor for Space Applications	5/27/2019	West Coast Solutions (WCS), in collaboration with American Lithium	lithium ion, supercapacitor, space power, space battery,
I	Roccor, LLC SBIR.gov	2602 Clover Basin Drive Suite D Longmont, CO	Name: Chris Pearson Title: Vice President, Space Flight	Name: Stephanie Amend Phone: (720) 515-	HQ0147-19-C-7040	System for Ultrahigh Rate and Gravimetrically	5/27/2019	The Missile Defense Agency (MDA) is seeking alternative energy	Li-ion, Space Power, High Energy Density, High Power Density,
I	Thermavant Technologies, L.L.C.	1000 Pannell Street Columbia, MO	Name: Corey Wilson Title: Sr. Thermal Engineer	Name: Joe Boswell Phone: (573) 397-6912	HQ0147-19-C-7041	High Power Density Source for Space Applications	5/27/2019	The proposed Phase I effort aims to develop a small satellite energy	small satellite thermal control, oscillating heat pipes, battery thermal
I	Gloyer-Taylor Laboratories Inc. SBIR.gov	112 Mitchell Blvd Tullahoma, TN 37388	Name: Zachary Taylor Title: Vice-President	Name: Paul Gloyer Phone: (931) 455-7333	HQ0147-19-C-7042	BHL Advanced Cryotanks SBIR.gov	5/27/2019	In this effort GTL proposes to develop a high performance,	propellant tank, pressure vessel, cryotank, cryogenic
I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Jennifer Lalli Title: PI Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-19-C-7043	Additively Manufactured Low Cost Complex	5/27/2019	NanoSonic has recently developed non-conventional metal-free,	Additive Manufacturing, Filament Winding, Volumetric Efficiency,
I	Exo-Atmospheric Technologies	4040 N. Calhoun Rd. Suite 201 Brookfield, WI	Name: Terry Hendricks Title: President	Name: Exo-Atmospheric Tech Exo-Atmospheric	HQ0147-19-C-7044	Additive-manufactured Low-Cost Upper-stage	5/27/2019	An Additive-manufactured, Low-Cost, Upper-stage	Additive Manufacturing, Topology Optimization, Aluminum-Lithium, Ti-

I	MAINSTREAM ENGINEERING CORPORATION	200 Yellow Place Pines Industrial Center	Name: Paul Yelvington Title: Senior	Name: Dr. Robert P. Scaringe Phone: (321) 631-	HQ0147-19-C- 7045	Electron Beam Additive Manufacturing of	5/29/2019	This program is significant in that it represents a leap	Additive Manufacturing, Electron Beam, Low Cost, High Performance,
I	Arrow Science And Technology, LLC	551 W. League City Parkway Suite D	Name: James D Baker Title: President	Name: James Baker Phone: (281) 409- 4163	HQ0147-19-C- 7046	Innovative Mobile Launch Platform SBIR.gov	5/27/2019	Arrow Science and Technology is beginning with a generic concept	target missile platform, multi-modal, launch platform, additive
I	Exquadrum, Inc. SBIR.gov	12130 Rancho Road Adelanto, CA	Name: Kevin E Mahaffy Title: CEO/PI	Name: Eric Schmidt Phone: (760) 530- 7922	HQ0147-19-C- 7047	Zero-stage Operationally Range-	5/27/2019	During the proposed Phase I research and development effort, the	Reliable, Safe, Modular Mobile Launch Platform, Streamline Fielding and
I	Recoverable and Reusable Air Launch	841 Bishop Street Suite 1110 Honolulu, HI	Name: Christopher Cluett Title: Naval	Name: Martin Kao Phone: (808) 531- 7001	HQ0147-19-C- 7048	Recoverable and Reusable Air Launch Pallet	5/27/2019	The Missile Defense Agency (MDA) is in need of an innovative air	Drop-stitch inflatable, inflatable structure, air launch pallet,
I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Josh Frankel Title: Principal Investigator	Name: Collette E Jolliffe Phone: (978) 250-	HQ0147-19-C- 7049	Recoverable and Reusable Air Launch Pallet	5/27/2019	Triton will develop a recoverable and reusable air launch	Recoverable, Reusable, Low Cost, Safe, Modular, Air Launch Missile Pallet
I	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Dusty Howard Title: Missile	Name: Billy Todd Phone: (256) 319- 2026	HQ0147-19-C- 7050	Recoverable and Reusable Air Launch Pallet	5/27/2019	Using the current air launch pallet for MDA target air launch	air launch pallet, IERUS, target mission, gravity air launch pallet, analysis
I	SI2 TECHNOLOGIES , INC.	267 Boston Road North Billerica, MA 01862	Name: Erik Handy Title: Principal Investigator	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-19-C- 7051	Rugged, Printed Electronic Components for	5/27/2019	SI2 Technologies, Inc. (SI2) proposes to develop structurally-	Additive Manufacturing, Printed Electronics, Printed Circuits, Missiles,
I	Microcvd Corporation SBIR.gov	10150 Meadow Woods Lane Dayton, OH 45458	Name: Zhigang Xiao Title: Chief Scientist/President	Name: Zhigang Xiao Phone: (937) 573- 8984	HQ0147-19-C- 7052	Ink-based 3D Electronics Printing for Missile	5/27/2019	Missile system development would benefit if electrical and	Chemical vapor deposition, laser, additive manufacturing,
I	3DFlexible Inc SBIR.gov	11008 Chelsea Way Laurel, MD 20723	Name: Donghun Park Title: Chief	Name: Yongzhang Leng Phone: (301) 793-	HQ0147-19-C- 7054	Ink-based 3D Electronics Printing for Missile	5/27/2019	Existing digital printed electronics systems are predominately based on	3D printer, flexible hybrid electronics, additive manufacturing,
II	Eospace Inc. SBIR.gov	6222 185th Ave. NE Suite 100 Redmond, WA	Name: David Moilanen Title: Principal	Name: Chung-Ping Chien Phone: (425) 869-	HQ0147-19-C- 7100	Robust Phase Modulators and Polarization	1/14/2021	A variety of ruggedized Lithium Niobate integrated optic devices	

II	PeopleTec, Inc. SBIR.gov	4901-D Corporate Drive Huntsville, AL	Name: William Sommers Title: Director	Name: Marsha H Latham Phone: (256) 319-	HQ0147-19-C-7101	Intercept Debris Modeling for Non Hit-to-Kill Missile	5/22/2021	The objective of the proposed effort is to develop an initial	modeling,simulation,inte rcept,debris,fragmentati on,high explosive
III	GoHypersonic Incorporated SBIR.gov	848 E. Monument Ave Dayton, OH 45402	Name: Vladimyr Gidzak Title: Senior	Name: Lance Jacobsen Phone: (937) 331-	HQ0147-19-C-7103	Aerospace Vehicle Signature Modeling			
II	GoHypersonic Incorporated SBIR.gov	848 E. Monument Ave Dayton, OH 45402	Name: Vladimyr Gidzak Title: Senior	Name: Lance Jacobsen Phone: (937) 331-	HQ0147-19-C-7103	Aerospace Vehicle Signature Modeling	1/10/2021	During hypersonic reentry, the flow around reentry vehicles is	Reentry, Coupled Simulation, Flow Fields, IR Signatures, Electro-
II	Spectral Sciences, Inc. SBIR.gov	4 Fourth Avenue Burlington, MA 01803	Name: Dr. Timothy Deschenes Title: Senior Scientist	Name: Dr. Robert Sundberg Phone: (781) 273-	HQ0147-19-C-7104	Advanced Chemistry and Radiation Modules	12/20/2020	The flight and environment conditions encountered by vehicles	hypersonic, reentry, signature, modeling, chemistry, radiation,
II	Edaptive Computing, Inc. SBIR.gov	1245 Lyons Road Building G Dayton, OH 45458	Name: Adam Langdon Title: Principal	Name: Dr. Praveen Chawla Phone: (937) 433-	HQ0147-19-C-7106	Improved Techniques for Optimistic	1/13/2021	Running a simulation on a parallel or distributed computing platform can	Modeling & Simulation, Optimistic Synchronization,
II	EVIGIA SYSTEMS INC SBIR.gov	3810 Varsity Drive Ann Arbor, MI 48108	Name: Navid Yazdi Phone: (734) 302-1140	Name: Navid Yazdi Phone: (734) 302-1140	HQ0147-19-C-7107	MEMS IMU Solutions for Missile Defense	12/9/2020	This proposed SBIR Phase II effort continues the development of	Inertial Measurement Unit (IMU), Gyroscope, Accelerometer, micro
II	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Daniel Butts Title: Materials Engineer	Name: Timothy McKechnie Phone: (256) 851-	HQ0147-19-C-7108	Composite Hot Structures with Oxidation	2/10/2021	Hot structures have been developed for a variety of advanced	Hot Structures, oxidation protection, Carbon Carbon
II	Arete Associates SBIR.gov	P.O. Box 2607 Winnetka, CA 91396	Name: Craig Baker Title: Director, Huntsville	Name: Greg Fetzer Phone: (520) 581-8660	HQ0147-19-C-7109	Applying Advanced Analytical	1/13/2021	Advanced data algorithmic techniques are revolutionizing many	Flight Test Data, Data Analysis, Predictive Analytics, Defense
II	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Blaine Farber Title: Principal Investigator	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0147-19-C-7110	High Bandwidth Redundant Communication	12/17/2020	Innoflight will develop a high performance software-defined	SmallSat and CubeSat transceiver radio, Software-Defined Radio,
III	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440		Name: Stephen D Vining Phone: (937) 320-	HQ0147-19-C-7111	Carbon/Carbon Maturation			

II	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440	Name: Michael Rauscher Title: Director,	Name: Ms. Chrysta Theodore Phone: (937) 320-	HQ0147-19-C-7111	Rapid, High-Quality C/C Composites	1/7/2021	Cornerstone Research Group (CRG) is reducing the variability and lead-	Carbon-carbon composites, high temperature materials,
II	Microwave Packaging Technology,	2501 East Chapman Ave Fullerton, CA	Name: Rick Sturdivant Title: CEO	Name: Rick Sturdivant Phone: (310) 980-	HQ0147-19-C-7112	High Power Monolithic Microwave	1/31/2021	Electronically protected Digital Receiver Exciters are critical technologies	Phased Arrays, Digital Receivers, TYP-2, Missile Defense, Radar
II	CREATE LLC SBIR.gov	16 Great Hollow Road Hanover, NH	Name: Roger W Hill Title: Principal Investigator	Name: Betsy Williams Phone: (603) 640-	HQ0147-19-C-7113	Contamination-Free, Lightweight, Helium-Rubidium	2/28/2021	Diode-Pumped Alkali Laser (DPAL) systems have great potential for	DPAL, Laser, Alkali, Rubidium, Compressor, Gas Bearing
II	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jennifer Steinhauser Title: Engineer	Name: Dr. J. Brent Romine Phone: (256) 327-	HQ0147-19-C-7114	Innovative Ways to Streamline Scenario	3/19/2021	aSSIST for the Early Digital Product will integrate and automate	digital testing, EDP, data visualization, scenario design, web-based
II	Modus Operandi, Inc. SBIR.gov	709 South Harbor City Blvd., Suite 400	Name: Eric Little Title: Chief Scientist Phone: (321) 473-	Name: Peter Dyson Phone: (321) 473-1444	HQ0147-19-C-7115	Advanced Development of Inception	2/29/2020	Requirements Management, Requirements	Preliminary definition and analysis of Ballistic Missile Defense System
II	SI2 TECHNOLOGIES, INC.	267 Boston Road North Billerica, MA 01862	Name: Tom Goodwin Title: Principal	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-19-C-7116	Dual-Band Datalink Antenna System for BMD	9/27/2021	Low Profile Antenna, Conformal Antenna, Dual-band Antenna	SI2 Technologies, Inc. (SI2) proposes to design and develop an
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Allan Dokhan Title: Principal Research Scientist	Name: David Weatherby Phone: (978) 738-	HQ0147-19-C-7117	Insensitive Munition Compliant, High	8/25/2021	Insensitive Munition (IM), oxidizer, composite propellants, hazard,	Physical Sciences Inc., proposes to develop and demonstrate a scale-up
II	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087-	Name: Kent Buesking Title: Director	Name: Gary Tiscia Phone: (610) 964-9000	HQ0147-19-C-7119	Improved Carbon-Carbon for Hypersonic	9/18/2021	2D Tape Wrapped Carbon-Carbon, 2D Involute Carbon-Carbon,	A recent flight test of a hypersonic vehicle resulted in failure that
II	Chromologic LLC SBIR.gov	180 N Vinedo Ave Pasadena, CA 91107-3490	Name: Virginio Sannibale Title: Senior	Name: Naresh Menon Phone: (626) 381-	HQ0147-19-C-7120	Marking of Components for Avoidance of	3/17/2021	Counterfeit, electronics, item level traceability, resurfaced non-	In order to address the Missile Defense Agency's urgent need to
II	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: Bert Vermeire Title: Principal	Name: David J Strobel Phone: (858) 332-	HQ0147-19-C-7121	High Speed Missile to Missile Communications	1/13/2022	Our approach will enable MDA avoid the long time currently	High Speed Missile to Missile Communications Approved for Public

II	Cesiumastro Inc. SBIR.gov	13413 Galleria Circle Suite 225 Austin, TX 78738	Name: Shey Sabripour Title: CEO	Name: Shey Sabripour Phone: (512) 818-	HQ0147-19-C-7122	High Speed Missile to Missile Communications	6/2/2021	High Speed Missile to Missile Communications. Approved for Public	phased array, missile, communication, low-latency, high-speed, RF,
II	SimVentions, Inc. SBIR.gov	101 Riverside Parkway Suite 123 Fredericksburg, VA	Name: Michael J Brown Phone: (540) 372-	Name: Stephen M Goss Phone: (540) 372-	HQ0147-19-C-7123	Resource Utilization Prediction and	1/10/2021	The Resource Utilization Prediction/Planning Analysts' Resource Tool	Computer and network resource loading is a challenge faced by
II	WARPIV TECHNOLOGIES, INC.	5230 Carroll Canyon Road, Suite 306	Name: Jeffrey Steinman Title: President &	Name: Jeffrey S. Steinman Phone: (858) 605-	HQ0147-19-C-7124	Resource Utilization Prediction and	3/20/2021	WarpIV Technologies has developed a federation performance	Federation Performance, OSF, WarpIV Kernel, HPC-RTI,
II	FISHEYE SOFTWARE, INC. SBIR.gov	Mill & Main Building Two, Suite 400	Name: Bill Schley Title: Engineering Fellow & Software	Name: Ted Selig Phone: (978) 461-0100	HQ0147-19-C-7126	FishEye Intelligent Dynamic Data Logging SBIR.gov	3/13/2021	The Phase II project combines existing innovative machine data	MDA routinely tests the nation's missile defense system to improve
II	Antara Teknik LLC SBIR.gov	5233 Castlereigh Ct Granite Bay, CA	Name: Mehmet Yavuz Adalier Title: CEO/CTO	Name: MEHMET YAVUZ ADALIER Phone: (916) 622-	HQ0147-19-C-7129	High Performance Cognitive Run Time Data	8/11/2021	The Missile Defense Agency's (MDA) integrated, layered,	In-line high performance lossless data compression, RLE, Linear
II	Radiation Monitoring Devices, Inc.	44 Hunt Street Watertown, MA 02472	Name: Yimin Wang Phone: (617) 668-6801	Name: Kanai Shah Phone: (617) 668-6801	HQ0147-19-C-7130	Transparent Silicone Carbide Seeker Windows	3/11/2021	The benefit to DOD is the ability to increase the performance	Missile seekers are a key element of modern defense systems.
II	MAINSTREAM ENGINEERING CORPORATION	200 Yellow Place Rockledge, FL 32955	Name: Dr. Josh Sole Phone: (321) 631-3550	Name: Mr. Michael Rizzo Phone: (321) 631-	HQ0147-19-C-7132	High Performance Cooled Seeker Window	3/19/2021	Infrared (IR) windows operating in the environment	aerodynamic heating, hypersonic, infrared window, cooling, high
II	Ross-Hime Designs Inc SBIR.gov	1848 laurel Ave. Saint Paul, MN 55104	Name: Mark E Rosheim Title: President, Ross	Name: Mark Rosheim Phone: (651) 280-	HQ0147-19-C-7133	Advanced Lightweight, Low Cost, High-g	9/29/2021	An innovative, new seeker gimbal design featuring "drop in"	Gimbal, Gimbals, Actuator, Articulated, Joint, Seeker, Missile,
II	Plasma Processes, LLC SBIR.gov	4914 Moores Mill Road Huntsville, AL	Name: Dr. Daniel Butts Phone: (256) 851-	Name: Angela Hattaway Phone: (256) 851-	HQ0147-19-C-7135	Highly Vectorable, Multi-Pulse Rocket Motor Nozzle to	5/16/2021	Emerging threats have the potential of operating in trajectories	Axial Divert and Attitude Control System (DACs); Third Stage Rocket
II	Exquadrum, Inc. SBIR.gov	12130 Rancho Road Adelanto, CA	Name: Kevin Mahaffy Phone: (760) 530-	Name: Eric Schmidt Phone: (760) 530-7922	HQ0147-19-C-7136	NEPTUNE Green Propellant Target Stage SBIR.gov	8/18/2021	During the proposed Phase II research and development effort, the	upper stage, liquid propellant, engine, thrust, low toxicity

II	Science and Technology Applications,	530 New Los Angeles Avenue, Suite 115	Name: Tedi Ohanian Phone: (805) 529-3800	Name: Lisa Ohanian Phone: (805) 529-3800	HQ0147-19-C-7137	“Green” Liquid Propellant Upper Stage Engine for	9/8/2021	Our vision for the next generation missile and space propulsion is a	Non Toxic, Monopropellant, AF-M315E, Small Launch
II	EngeniusMicro, LLC SBIR.gov	1300 Meridian Street Suite 3000 Huntsville, AL	Name: Michael Whitley Title: Vice President	Name: Kelli Beene Phone: (256) 261-1260	HQ0147-19-C-7138	3D Printed Component Packages for	3/13/2021	This proposal has potential commercial benefits of providing	This proposal seeks to develop a 3D printing process to print a 3D
II	Space Micro Inc. SBIR.gov	10237 Flanders Court San Diego, CA	Name: David Strobel Phone: (858) 332-0700	Name: David Strobel Phone: (858) 332-0700	HQ0147-19-C-7139	3D Printed Microscale Radiation	6/3/2021	State-of-the-art COTS microelectronics are often found to be	radiation, shielding, 3D printed, total dose. prompt dose, HAENS,
II	SI2 TECHNOLOGIES, INC.	267 Boston Road North Billerica, MA 01862	Name: Dr. Erik Handy Phone: (978) 495-	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-19-C-7140	Low-SWaP-C, 3D Printed Radiation Shielding For	3/14/2021	The proposed printed radiation shielding technology will afford	SI2 Technologies, Inc. (SI2) proposes to develop 3D-printed,
II	ROCK WEST COMPOSITES, INC. SBIR.gov	1602 Precision Park Lane San Diego, CA	Name: Keith Loss Phone: (858) 537-6260	Name: Keith Loss Phone: (858) 537-6260	HQ0147-19-C-7141	Radio Frequency Transparent Thermal	7/29/2021	The exterior surfaces of high speed missiles and other air structures	Radome, TPS, thermal protection system, band pass filter, multi-
II	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Dr. Vince Baranauskas Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-19-C-7142	RADIO FREQUENCY TRANSPARENT,	7/30/2021	Through its Phase I MDA SBIR program, NanoSonic designed and	Thermal Protection System, Radome, Radio Frequency Transparent,
II	Spectral Energies, LLC SBIR.gov	4065 Executive Dr. Beaver creek, OH 45430	Name: Sivaram Gogineni Phone: (937) 266-	Name: Sivaram Gogineni Phone: (937) 266-	HQ0147-19-C-7143	High Performance MEMS Inertial Measurement Unit	1/29/2021	The proposed project aims to improve the SWaP-C of tactical-grade	Spectral Energies proposes to develop size, weight, power, cost
II	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Joseph Knuth Title: Program Manager	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-19-C-7144	Extensions to the ONBU Algorithm for Increased	3/7/2021	We propose maturation and extension of an innovative batch	off-nominal break-ups (ONBU), track refinement, track scene
II	Intelligent Fiber Optic Systems Corporation	2363 Calle Del Mundo Santa Clara, CA	Name: Behzad Moslehi Phone: (408) 565-	Name: Behzad Moslehi Phone: (408) 565-	HQ0147-19-C-7145	Innovative Integrated Optical Driver for Ultra-	9/29/2021	IFOS is developing an integrated optical driver (IOD) for next-	Photonic integrated circuit, miniaturized avionics, optical
II	SCITEC, INC. SBIR.gov	100 Wall Street Princeton, NJ 08540	Name: Brian Pasquini Title: Scientist	Name: James Lisowski Phone: (609) 921-	HQ0147-19-C-7147	Innovative Signature Exploitation for	8/5/2021	SciTec, Inc. has extensive experience developing robust, signature based	Profile Free Typing, Ballistic Missile Exhaust Plumes, Characterization

II	Enterprise Sciences, Inc. SBIR.gov	5000 College Ave Ste 1102-1104 College Park, MD	Name: Andrew Mostovych Title: President, CTO	Name: Andrew Mostovych Phone: (301) 699-	HQ0147-19-C-7148	Non-Energetic Self-Destruct Mechanisms for	8/7/2021	Enterprise Sciences, Inc., (ESI) has developed non-energetic miniature Self-	Anti-Tamper, Self-Destruct, HVP, Hyper Velocity Projectiles, CPI,
II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0147-19-C-7149	Standard Missile 3 (SM-3) Materials Design	7/21/2021	The Missile Defense Agency (MDA) is seeking innovative component	TSRM ACS, SM3, ACS, Solid Propellant, Extinguishable/Controlla
II	BlueRISC, Inc. SBIR.gov	28 Dana Street Amherst, MA 01002-2209	Name: Kristopher Carver Phone: (413) 359-	Name: Andras Moritz Phone: (413) 359-	HQ0147-19-C-7151	UniQore Secure Soft-core Processor	4/29/2021	The proposed effort is a follow-on project to mature and extend	Anti-tamper, configurable secure processor, architecture,
II	RESERVOIR LABS INC SBIR.gov	632 Broadway, Suite 803 New York, NY	Name: Paul Mountcastle Phone: (212) 780-	Name: Melanie Peters Phone: (212) 780-	HQ0147-19-C-7152	Improved Track Accuracy for Missile	8/12/2021	In this project, Reservoir Labs continues to prototype and refine our	Ballistic Missile Defense, radar, optical tracking, ballistic tracking,
II	International FemtoScience, Inc. SBIR.gov	PO Box 50980 Nashville, TN 37205	Name: Dr. David Kerns Title: Principal	Name: Dr. David Kerns Phone: (615) 530-	HQ0147-19-C-7153	Advanced High-g Accelerometers in Small Form Factor	7/15/2021	International FemtoScience will develop and	MEMS, Accelerometer, IMU, High-g, Diamond, Robust, Low cost
II	EngeniusMicro, LLC SBIR.gov	1300 Meridian Street Suite 3000 Huntsville, AL	Name: Dr. Mike Kranz Phone: (256) 261-	Name: Kelli Beene Phone: (256) 261-1260	HQ0147-19-C-7154	Advanced High-g Accelerometers in Small Form Factor	4/23/2021	Missile defense applications currently expose inertial	MEMS Accelerometer, MEMS IMU, Harsh Environment, Resonant
II	OPTIMIZATION TECHNOLOGIES, INC.	2241 17th Street Boulder, CO 80302 United States	Name: Benjamin Thengvall Title: VP of	Name: James Kelly Phone: (303) 447-3255	HQ0147-19-C-7159	Employing Optimization to Streamline	8/4/2021	A simulation optimization tool can exploit existing BMDS	simulation optimization, scenario generation, process re-engineering
III	Lithiumstart LLC SBIR.gov	384 Oyster Point Blvd., Ste. 16 South San	Name: Thomas Cook Title: Owner/President	Name: Christopher Cook Phone: (415) 713-	HQ0147-19-C-7300	Solid State High Energy Laser Batteries and	7/20/2019	Logical follow-on to Phase II: HQ0147-14-C-7039	
III	Modus Operandi, Inc. SBIR.gov	709 South Harbor City Blvd., Suite 400	Name: Eric Little Title: Chief Scientist Phone: (321) 473-	Name: Peter Dyson Phone: (321) 473-1444	HQ0147-19-C-7301	Fraud, Waste and Abuse Tool	3/4/2022	Logical follow-on to Phase II: HQ0147-13-C-7621	
II	Numerica Corporation SBIR.gov	5042 Technology Parkway Suite 100 Fort Collins, CO	Name: Neil Dhingra Title: Research Scientist	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-19-C-7421	Techniques for Real-time Hypervelocity	9/18/2021	Hypervelocity projectiles (HVPs) offer the potential for highly	Hypervelocity projectile, interceptor, fly-out trajectory generation,

II	KNOWLEDGE BASED SYSTEMS, INC.	1408 University Drive East College Station, TX	Name: Ron Fernandes Title: Senior	Name: Jason Ogle Phone: (979) 260- 5274	HQ0147-19-C- 7500	Advanced Cyber Threat Intelligence and Vulnerability	9/18/2021	Knowledge Based Systems, Inc. (KBSI) will design and demonstrate	Adaptive Cyber Training, Network Simulation, Performance
II	Tier 1 Performance Solutions, LLC	100 E. Rivercenter Blvd Suite 100 Covington, KY	Name: Walter Warwick Title: Director of	Name: Terence Andre Phone: (719) 213-	HQ0147-19-C- 7501	SCYTHE: Simulate CYber Threats using Hybrid	9/29/2021	TiER1's proposed SCYTHE (Simulate CYber Threats using Hybrid	software agents, artificial intelligence, cyber defense training,
II	Vadum, Inc. SBIR.gov	601 Hutton St STE 109 Raleigh, NC 27606	Name: David Padgett Title: Senior Staff Engineer	Name: Gary Edge Phone: (919) 341- 8241	HQ0147-19-C- 7503	Techniques for Real-time Hypervelocity	9/20/2021	Vadum has demonstrated the Optimal Advanced	Hypervelocity Projectile, Hypervelocity Gun Weapon System,
II	Freedom Photonics LLC SBIR.gov	41 Aero Camino Santa Barbara, CA 93117	Name: Gordon Morrison Title: Director Of	Name: Leif Johansson Phone: (805) 967-	HQ0147-19-C- 7505	Advanced High End Gyroscopes for Small Form	9/29/2021	In this program, Freedom Photonics will develop a novel, 3-axis,	Gyroscope, photonics, IMU
II	Exo- Atmospheric Technologies	938 N. Griffith Rd. Oconomowoc, WI 53066	Name: Terry Hendricks Title: President	Name: Terry Hendricks Phone: (414) 243-	HQ0147-19-C- 7506	Low-Drag Jet Vane- Thrust Vector Control for Exo-	9/25/2021	A new type of thrust vector control (TVC) system is proposed to	Low-Drag, Exo- Atmospheric, Jet Vane, Thrust Vector Control,
II	Helicon Chemical Company LLC	3259 Progress Drive Orlando, FL 32826	Name: David Reid Title: President and CEO	Name: David Reid Phone: (321) 300- 6266	HQ0147-19-C- 7507	Performance Optimized Hierarchical	9/29/2021	Future interceptors would benefit from advanced propulsion	solid propellant, specific impulse, high- performance, energy
II	ASRC Federal Astronautics, LLC SBIR.gov	289 Dunlop Blvd Building 300 Huntsville, AL	Name: Stephen Cooke Title: Principal	Name: Joseph Sims Phone: (256) 562- 2191	HQ0147-19-C- 7508	An Additively Manufactured Lightweight, High	9/18/2021	ASRC Federal Astronautics, LLC (AFA) is pleased to present this	Selective Laser Melting, Additive Manufacturing, Solid Rocket Motor
II	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Jennifer Lalli Title: PI Phone: (540) 626-	Name: Melissa Campbell Phone: (540) 626-	HQ0147-19-C- 7509	Small Filament Wound Lightweight	8/19/2021	During Phase I, NanoSonic produced structural shielding	Additive manufacturing, LEO, EMI shielding, radiation shielding, high
II	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Blaine Farber Title: Principal Investigator	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0147-19-C- 7510	Radiation Hardened Electronics and	9/3/2021	The radiation environment around Earth hinders space	Radiation, Hardened, Mitigation, Electronics, Nano Vacuum Channel
II	Gloyer-Taylor Laboratories Inc. SBIR.gov	112 Mitchell Blvd Tullahoma, TN 37388	Name: Zachary Taylor Title: Vice-President	Name: Paul Gloyer Phone: (931) 455- 7333	HQ0147-19-C- 7511	Advanced DACS Tanks SBIR.gov	9/24/2021	In the Phase I effort, GTL showed that future missile interceptor	BHL, composite, pressure vessel, tank, spacecraft, propulsion,

II	SI2 TECHNOLOGIES, INC.	267 Boston Road North Billerica, MA 01862	Name: Michael Borrelli Title: Principal	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0147-19-C-7512	Lightweight Multifunctional Components for	9/3/2021	SI2 Technologies, Inc. (SI2) proposes to continue the rapid	Volume efficiency, multifunctional structure, lightweight,
II	Sonalysts, Inc. SBIR.gov	216 Parkway North Waterford, CT	Name: Dan Bouchard Title: Principal	Name: Joyce Brown Phone: (860) 326-3768	HQ0147-19-C-7513	Command and Control, Modeling and Simulation,	8/12/2021	This Second Phase II effort will leverage the existing Standard Space	Standard Training Architecture; Tactics, Techniques, and
III	EXOTHERMICS, INC. SBIR.gov	14 Columbia Drive Amherst, NH 03031	Name: Stephen DiPietro Title: President/CEO	Name: Gerri Doyle Phone: (603) 732-0079	HQ0147-19-C-7900	Window Seeker		Logical follow-on contract to Phase II: HQ0147-15-C-7211	
III	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	Name: Joseph Knuth Title: Program Manager	Name: Jeff Poore Phone: (970) 207-2211	HQ0147-19-D-7204	System Track Engancement for C2BMC	9/22/2024	Logical follow-on effort to Phase II contract: HQ0147-16-C-7744	
III	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0147-19-D-7207	Uncertain Signature Generation	9/15/2024	A logical follow-on contract to Phase II: HQ0147-16-C-7702	
II	TDA Research, Inc. SBIR.gov	12345 W. 52nd Ave. Wheat Ridge, CO	Name: Michael Diener Title: Principal	Name: John Wright Phone: (303) 940-2300	HQ0277-13-C-7604	Coatings for Alkali Vapor Laser Cavity SBIR.gov	8/5/2015	Diode-pumped alkali laser systems (DPALS) are under development	Antireflection coating, DPALS optics, Rubidium vapor cell, Sapphire
III	Sonalysts, Inc. SBIR.gov	216 Parkway North Waterford, CT	Name: Dan Bouchard Title: Principal	Name: Joyce Brown Phone: (860) 326-3768	HQ0852-20-C-7001	Mission Specific Vendor Plug-In (MSVP)	9/30/2023	Logical follow-on effort to Phase II: HQ0147-15-C-7253	
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Tony Nelson Title: Principal Investigator	Name: Tracy Williams Phone: (405) 410-	HQ0860-20-C-7000	Innovative Ejector Launch System SBIR.gov	5/21/2020	The Department of Defense is interested in the development of cold-	missile, launcher, cold launch, vertical launcher system, ship safety
I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Chuck Hannon Title: Principal	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-20-C-7001	Vertical Cold-Launch System SBIR.gov	5/21/2020	Triton Systems will work with the Lockheed Martin Company to	vertical launch system, VLS, missile, MK-41, cold launch
I	Technology Service Corporation	251 18th Street S Suite 705 Arlington, VA	Name: Jeffery Philson Title: Principal	Name: Uri Bernstein Phone: (310) 754-4211	HQ0860-20-C-7002	Advanced Hierarchical Temporal Memory	5/21/2020	Technology Service Corporation (TSC) proposes to identify	Artificial Intelligence, Missile Defense, Debris Mitigation, Electronic

I	Charles River Analytics, Inc. SBIR.gov	625 Mount Auburn Street Cambridge, MA	Name: Tyler Mayer Title: Scientist Phone: (617) 491-	Name: Yvonne Fuller Phone: (617) 491-3474	HQ0860-20-C-7003	Dynamic Narrative Aid for Battle Management	5/21/2020	Charles River Analytics proposes to design and demonstrate the	Integrated Air and Missile Defense, Battle Management, Market-
I	Numerica Corporation SBIR.gov	5042 Technology Parkway Suite 100 Fort Collins, CO	Name: Neil Dhingra Title: Research Scientist	Name: Jeff Poore Phone: (970) 207-2211	HQ0860-20-C-7004	REAP: Resource-management via Explainable	5/21/2020	Numerica proposes system Resource-management via	Battle Management, Sensor Resource Management, Advanced
I	STILMAN ADVANCED STRATEGIES,	501 S Cherry St, Suite 1100 Denver, CO 80246	Name: Vlad Yakhnis Title: VP Science & Technology	Name: Vlad Yakhnis Phone: (303) 809-0205	HQ0860-20-C-7005	LG based AI for Battle Management (BM)	5/21/2020	We will develop a proof of concept design / prototype	Linguistic Geometry (LG), BMD, IAMD, Linguistic Geometry-
I	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Alexander Milovanov Title: Sr. Systems	Name: Keith Baker Phone: (424) 835-9475	HQ0860-20-C-7006	Bare-Metal Hypervisor for Real-time	5/21/2020	Physical Optics Corporation (POC) proposes to develop the	Bare-metal hypervisor (BMHy), Critical Program Information (CPI),
I	Secmation, LLC SBIR.gov	1017 Main Campus Drive Suite 1501	Name: Hal Aldridge Title: CEO Phone: (919) 887-	Name: Hal Aldridge Phone: (919) 887-2560	HQ0860-20-C-7007	Anneal – Real-Time Embedded Hypervisor with	5/21/2020	Secmation proposes Anneal, a real-time embedded hypervisor as	Cybersecurity, real-time, critical program information, hypervisor,
I	RAM LABORATORIES SBIR.gov	591 Camino de la Reina Suite 610 San Diego, CA	Name: John Geddes Title: Senior Staff Scientist	Name: Robert McGraw Phone: (619) 398-	HQ0860-20-C-7008	Bare Metal Hypervisor for Embedded	5/21/2020	RAM Laboratories is proposing the Embedded Secure	Bare-metal Hypervisor, intra-level privilege separation, out-of-band,
I	STAR LAB CORP. SBIR.gov	1221 Connecticut Ave NW 4th Floor Washington, DC	Name: Dan Noland Title: Research Engineer	Name: Irby Thompson Phone: (202) 706-	HQ0860-20-C-7009	Graphite – Bare-Metal Hypervisor for Security & CPI	5/21/2020	Star Lab proposes to research and develop extensions to an already	hypervisor, virtualization, Xen, real-time operating system
I	POLYMATERIALS APP, LLC SBIR.gov	3802 Spectrum Blvd, Suite 145 Tampa, FL 33612	Name: Manoj K Ram Title: President Phone: (727) 233-	Name: Manoj Ram Phone: (727) 251-3098	HQ0860-20-C-7010	Cellulose Based Flexible Solid State High power and	5/21/2020	PolyMaterials and its collaborators propose to bring an innovative	Supercapacitor, specific capacitance, specific power, cellulose,
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Min (Sharon) K Song Title: Principal	Name: David Weatherby Phone: (978) 738-	HQ0860-20-C-7011	Nontoxic, Environmentally Friendly, Cellulose-	7/14/2020	Physical Sciences Inc. (PSI) proposes to develop a high	Biocarbon, supercapacitors, plant cellulose,
I	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Vernon Cole Title: Technical Fellow	Name: Tanu Singhal Phone: (256) 726-4800	HQ0860-20-C-7012	Non-toxic supercapacitors based on plant-	5/21/2020	CFD Research will develop and demonstrate a plant-	Plant-derived carbon, supercapacitors, non-toxic

I	TalosTech LLC SBIR.gov	274 Quigley Blvd New Castle, DE 19720	Name: Hansan Liu Title: President Phone: (302) 332-	Name: HANSAN LIU Phone: (302) 332-9236	HQ0860-20-C-7013	Advanced Supercapacitors Based on Novel	5/21/2020	Talos Tech proposes to develop a high voltage and capacitance	Biocarbon materials; Plant cellulose; Microporous; Highly
I	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087	Name: Daniel Hladio Title: Senior Research Engineer	Name: Gary Tiscia Phone: (610) 964-9000	HQ0860-20-C-7014	Determination of Carbon-Carbon Hydrocode	5/21/2020	Materials Research & Design, Inc. (MR&D) and Southwest Research	Carbon-Carbon, Hydrocode, User Material (UMAT),
I	Seed Innovations, LLC SBIR.gov	19960 Capella Drive Monument, CO	Name: M Douglas Williams Title: Senior	Name: Marlu Oswald Phone: (719) 306-5814	HQ0860-20-C-7015	Automatic Generation of Application	5/21/2020	Seed Innovations proposes to design and develop a proof-of-	Cybersecurity, Code Generation, Machine Learning, Self-Coding,
I	Edaptive Computing, Inc. SBIR.gov	1245 Lyons Road Building G Dayton, OH 45458	Name: Carl Brandon Title: Principal Developer I	Name: Dr. Praveen Chawla Phone: (937) 433-	HQ0860-20-C-7016	Self-Coding Cyber Fixes SBIR.gov	5/21/2020	Propose to develop and deploy tools and methods to	Automatic code repair, Cyber vulnerabilities, Scanning tools, Machine
I	Ram Photonics LLC SBIR.gov	9710 Scranton Rd., Suite 100 San Diego, CA	Name: John Marciante Title: President	Name: John Marciante Phone: (585) 771-	HQ0860-20-C-7017	Self-Coding Cyber Fixes SBIR.gov	5/21/2020	RAM Laboratories is proposing Deep Learning for Precise, Automatic	Cybersecurity, Machine Learning, Self-Coding, vulnerability, code
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Suite 190 Rockville, MD	Name: Guang Jin Title: Program Manager	Name: Mark James Phone: (301) 294-5200	HQ0860-20-C-7018	AMELIA - Automatic Machine Learning	5/24/2020	Intelligent Automation, Incorporated (IAI) proposes an Automatic	Cyber security, Static Analysis, Machine Learning
I	CERANOVA CORPORATION SBIR.gov	85 Hayes Memorial Drive Marlborough, MA	Name: Richard Adams Title: Sr. Engineer -	Name: Marina R. Pascucci Phone: (508) 460-	HQ0860-20-C-7019	Enabling Technologies for Forward Looking	6/2/2020	CeraNova proposes developing and maturing processes to produce	aluminum nitride, hypersonic, sensor window, transparent,
I	Systems & Processes Engineering	4120 Commercial Center Dr Ste 500 Austin, TX 78744	Name: Brad Sallee Title: VP, System Technology	Name: Natalie Welp Phone: (512) 479-7732	HQ0860-20-C-7020	Enabling Technologies for Forward Looking	7/14/2020	Systems & Processes Engineering Corporation (SPEC) proposes a	Forward Looking Hypersonic seeker, quartz window
I	CRYOWAVE ADVANCED TECHNOLOGIES	32 Mechanic Ave., Suite 220 Woonsocket, RI	Name: Zhimin Hu Title: Dr Phone: (774) 284-	Name: Zhimin Hu Phone: (401) 766-0215	HQ0860-20-C-7021	Enabling Technologies for Forward Looking	5/21/2020	Propose to develop an adaptive forward-facing cavity nose (AFFCN)	Hypersonic-interceptor, aero-thermal heat, window-dome, blunt-
I	BLAZETECH CORPORATION SBIR.gov	29B Montvale Ave. Woburn, MA	Name: Hartmut Legner Title: Senior	Name: Albert Moussa Phone: (781) 759-	HQ0860-20-C-7022	Sparse-Aperture Passively-Cooled Window	5/21/2020	Propose new window concept that separates optical features from	sparse aperture, passive cooling, active cooling, forward-looking

I	Polaris Sensor Technologies, Inc. SBIR.gov	200 Westside Square Suite 320 Huntsville, AL	Name: John Harchanko Title: Director of	Name: David Chenault Phone: (256) 562-	HQ0860-20-C-7023	Enabling Technologies for Forward Looking	5/21/2020	This proposal seeks to provide the onboard Data Acquisition and	infrared, transparent materials, seeker, sensor, thermal
I	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Austin Owens Title: Lead Engineer Phone: (858) 332-	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0860-20-C-7024	Radiation Hardened Machine Vision	5/21/2020	Innoflight is proposing to leverage its Graphics Processing Unit (GPU)-	Graphics Processing Unit (GPU), radiation-hardened, machine
I	Space Micro Inc. SBIR.gov	15378 Avenue of Science Suite 200 San Diego, CA	Name: Bert Vermeire Title: Chief Technical	Name: David J. Strobel Phone: (858) 332-	HQ0860-20-C-7025	Radiation Hardened, Reprogrammable,	5/21/2020	Space micro will develop a next generation radiation hardened, high	Radiation, SWaP, reconfigurable, computer, processing,
I	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Suite 190 Rockville, MD	Name: Raqibul Hasan Title: Research	Name: Mark James Phone: (301) 294-5200	HQ0860-20-C-7026	RPCV: Robust Processor for Computer Vision	9/8/2020	Intelligent Automation proposes to develop a specialized computer	Machine vision, radiation hardened hardware, SIMD
I	Cubic Aerospace, LLC SBIR.gov	12110 Sunset Hills Road Suite C-4 Reston, VA 20190	Name: George Schmitt Title: Lead Digital	Name: Abigail Davidson Phone: (917) 748-	HQ0860-20-C-7027	Radiation Hardened Machine Vision	8/2/2020	This proposal offers a solution to provide near real-time processing of	On-board processing, GPU, machine vision, radiation hardened,
I	GENERAL SCIENCES INC SBIR.gov	205 Schoolhouse Road Souderton, PA	Name: Peter D Zavitsanos Title: President	Name: Peter D Zavitsanos Title: President	HQ0860-20-C-7029	MIL-STD-1901A Compliant Igniter Energetics for	5/21/2020	General Sciences, Inc. (GSI) will exploit its energetic intermetallic	MIL-STD 1901A, Propellant, SRM Igniter, Ignition Safety Devices
I	Skyhaven Systems, LLC SBIR.gov	25557 Bella Vista Circle PO Box 770252	Name: Michael C Kimble Title: President	Name: Michael Kimble Phone: (970) 846-	HQ0860-20-C-7030	Hypersonic Leading Edge Thermal Cooling	5/21/2020	Propose development of ceramic evaporative heat acquisition unit	Hypersonic vehicles, leading edge, thermal cooling system, heat
I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	Name: Vince Baranauskas Title: PI, Chief	Name: Melissa Campbell Phone: (540) 626-	HQ0860-20-C-7031	High Temperature Monofilament for Additively	5/21/2020	Plan to develop materials and processes for the additive	Additive manufacturing, polymer derived ceramic, extruded
I	Nanoarmor, LLC SBIR.gov	9606 Santa Monica Blvd FL4 Beverly Hills, CA	Name: Terrisa Duenas Title: CEO	Name: Jack Roe Phone: (800) 581-4528	HQ0860-20-C-7032	Novel Additively-manufactured Composite	5/21/2020	Proposed innovation centered on patented process technique for	Additive Manufacturing, Ultrahigh Temperature Ceramic Matrix
I	ExOne Company, The SBIR.gov	127 Industry Blvd. North Huntingdon, PA 15642	Name: Jesse Blacker Title: Director - New Product & Business	Name: Jesse Blacker Phone: (740) 695-0397	HQ0860-20-C-7033	Additive Manufacturing of TZM Refractory	5/21/2020	ExOne will demonstrate technical feasibility of an additive manufacturing	Hypersonics, Additive Manufacturing, Thermal Management, Thermal

I	MAGICOM LLC SBIR.gov	775 Technology Drive, Suite 300 Ann Arbor, MI	Name: Michael Gerulat Phone: (256) 783-	Name: Michael Gerulat Phone: (256) 783-	HQ0860-20-C-7034	Continuous Communications Through Plasma	5/21/2020	MagiCom proposes to investigate and develop several concepts to	Hypersonic, Plasma, Communications, Survivable, Software
I	EMAG TECHNOLOGIES, INC.	775 Technology Drive, Suite 300 Ann Arbor, MI	Name: Michael Gerulat Phone: (256) 783-	Name: Michael Gerulat Phone: (256) 783-	HQ0860-20-C-7034	Continuous Communications Through Plasma	3/21/2021	MagiCom proposes to investigate and develop several concepts to	Hypersonic, Plasma, Communications, Survivable, Software
I	BLAZETECH CORPORATION SBIR.gov	29B Montvale Ave. Woburn, MA	Name: Hartmut Legner Title: Senior	Name: Albert Moussa Phone: (781) 759-	HQ0860-20-C-7035	High Mach Plasma Sheath Mitigation SBIR.gov	5/21/2020	Propose approach to mitigating plasma sheath effects based on	hypersonic, High Mach, reentry vehicles, atmospheric vehicles,
I	Winchester Technologies, LLC SBIR.gov	21 A Street Burlington, MA 01803	Title: CEO	Name: Hui Lu Phone: (978) 376-4205	HQ0860-20-C-7036	Continuous Communications Through Plasma	5/21/2020	Propose development of ultra-compact very low frequency (VLF, 3~30	Hypersonics, communication, blackout, VLF,
I	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0860-20-C-7037	Continuous Communications Through Plasma	5/21/2020	IERUS proposes to develop a novel plasma microparticle injection	plasma, blackout, radome, hypersonic, radio, frequency,
I	RC INTEGRATED SYSTEMS LLC	24234 MADISON ST TORRANCE, CA	Name: Naibing (Maurice) Ma Title: Vice President	Name: Naibing (Maurice) Ma Phone: (760) 383-	HQ0860-20-C-7038	Additively Manufactured Inductive Coupling	5/21/2020	RC Integrated Systems LLC (RISL) proposes to develop a new	Embedded sensor network, additive manufacturing, surface
I	CONTROL VISION INC SBIR.gov	6825 East Outlook Drive Tucson, AZ 85756	Name: Dan Crawford Title: Project Manager	Name: Daniel Crawford Phone: (208) 523-	HQ0860-20-C-7039	Flight Vehicle Surface Sensor Network	5/21/2020	Control Vision, Inc. proposes development of a distributed network	Embedded Sensor Network, Embedded Sensors Additive
I	Analatom Inc SBIR.gov	4655 Old Ironsides Drive Suite 130 Santa Clara, CA	Name: Duane Darr Title: Senior Embedded System	Name: Bernard C. Laskowski Phone: (408) 980-	HQ0860-20-C-7040	Flight Vehicle Surface Sensor Network	5/21/2020	Analatom Inc. proposes an innovative, integrated, hybrid	Embedded Sensing, Sensor Network, Hybrid Sensing,
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Stephen Hummel Title: Principal	Name: Tracy Williams Phone: (405) 410-	HQ0860-20-C-7041	Lightweight Fins for Enhanced Maneuverability of	5/21/2020	Corvid proposes to leverage both computational fluid	Computation Fluid Dynamics, lightweight, hypersonic,
I	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Steve Schoenholz Title: Principal	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-20-C-7042	Lightweight Fins for Enhanced Maneuverability of	5/21/2020	Triton Systems and our team proposes to develop a novel,	Hypersonic, Fin, Lightweight, Agile, Actuation Systems

I	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Andreas HOFFIE Title: Research	Name: Tanu Singhal Phone: (256) 726-4800	HQ0860-20-C-7043	Integrated and optimized aero-structural design	5/21/2020	CFD Research team proposes to develop and demonstrate a rapid	Hypersonic Aerodynamics, Adaptive Control, Control
I	Intellisense Systems, Inc. SBIR.gov	20600 Gramercy Place Torrance, CA	Name: Ian Helmuth Title: Program Lead Phone: (310) 320-	Name: Gerrit Vanden Brink Phone: (310) 320-	HQ0860-20-C-7044	Missile Defense Acquisition and Ranging Device	5/21/2020	Intellisense Systems, Inc. (ISI) proposes to develop a new precision range	ranging sensor, range finder, missile defense, miniaturization
I	Systems & Processes Engineering	4120 Commercial Center Dr Ste 500 Austin, TX 78744	Name: Brad Sallee Title: VP, System Technology	Name: Natalie Welp Phone: (512) 479-7732	HQ0860-20-C-7045	Miniaturized Inflight-capable Laser Detection	5/21/2020	Systems & Processes Engineering Corporation proposes a long range,	detection, ranging, flight hardened detection and ranging
I	ATTOLLO ENGINEERING, LLC SBIR.gov	1260 Avenida Acaso, Suite B Camarillo, CA	Name: Tim Strand Title: Director of Engineering	Name: Tony Vengel Phone: (805) 384-8046	HQ0860-20-C-7046	Miniaturized Inflight-capable Laser Detection	5/21/2020	Attollo will initially perform a trade study to determine the	ASIC, Detector, Ranging, Detection and Ranging
I	Beyond Photonics, LLC SBIR.gov	6205 Lookout Road, Ste. B Boulder, CO 80301	Name: Sammy W Henderson Title: President and	Name: Charley Hale Phone: (303) 475-2088	HQ0860-20-C-7047	Compact Efficient LADAR for Target Detection and	5/21/2020	Development of a compact and efficient infrared sensor system is	tracking, ranging, detection, detection and ranging
I	Vadum, Inc. SBIR.gov	601 Hutton St STE 109 Raleigh, NC 27606	Name: Todd Nichols Title: Principal Engineer	Name: Gary Edge Phone: (919) 341-8241	HQ0860-20-C-7048	Missile Aft Antenna (MAA) Design	5/21/2020	Vadum will design a scalable Missile Aft Antenna (MAA) that	Antenna, link budget, missile defense, exoatmospheric,
I	IERUS TECHNOLOGIES, INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Griff Gothard Title: Senior Research Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0860-20-C-7049	Rugged Antennas for Missile Aft Plate Installation	5/21/2020	Updated X-band antenna designs will support proposed	Antenna, Interceptor, S-band, X-band, Dual Band, Reentry, co-site
I	CREARE LLC SBIR.gov	16 Great Hollow Road Hanover, NH	Name: Roger W Hill Title: Principal Investigator	Name: Betsy Williams Phone: (603) 640-	HQ0860-20-C-7050	Modeling of High-Power Fiber Laser Performance	5/21/2020	Creare team will develop a comprehensive physics based fiber laser analysis	Fiber, laser, power scaling, multi-physics software
I	Ram Photonics LLC SBIR.gov	9710 Scranton Rd., Suite 100 San Diego, CA	Name: John Marciante Title: President	Name: John Marciante Phone: (585) 771-	HQ0860-20-C-7051	Fiber Laser Integrated Performance	5/21/2020	RAM Photonics proposes to develop a complete simulation environment	fiber laser, fiber amplifier, modeling and simulations, high energy
I	Apsidal LLC SBIR.gov	11420 Santa Monica Blvd Unit 25295	Name: Amrit De Title: Chief Scientist Phone: (319) 337-	Name: Amrit De Phone: (626) 429-7101	HQ0860-20-C-7052	Modeling of Fiber Laser Refractive Index Profiles and	5/21/2020	Apsidal proposes to develop its Intelligent Fiber Laser Performance	fiber lasers, core-clad structures, doping profile, fiber mode

II	Optimax Systems, Inc. SBIR.gov	6367 Dean Parkway Ontario, NY 14519	Name: Brian Myer Title: R&D Engineer Phone: (585) 265-	Name: Jessica Nelson Phone: (585) 265-	HQ0860-20-C-7100	Manufacture of Monolithic Telescope with a	1/14/2023	Optimax Systems, Inc. has developed a unique and robust	precision optics, freeform, monolith, remote sensing, cubesat,
II	Archarithms, Inc SBIR.gov	303 Williams Avenue Suite 131/132	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 426-2915	HQ0860-20-C-7102	Command and Control Course of Action (COA)	2/25/2022	Combatant Commands (CoComs) desire the ability to perform	Defense Design, Course of Action, Service Oriented Architecture,
II	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	Name: Victoria Mcdermott Title: System	Name: Teddy Kidd Phone: (703) 522-4032	HQ0860-20-C-7103	Element Model Framework SBIR.gov	4/27/2022	Propose development of Automated Interface Middleware Service	Objective simulation framework, Tier 2 Digital, Integration and
II	PROTECTION ENGINEERING CONSULTANTS	PO Box 781607 San Antonio, TX 78278	Name: David Stevens Title: Managing Principal	Name: David J. Stevens Phone: (512) 380-	HQ0860-20-C-7104	Methodologies for Cost-Effective Measurement of	2/13/2022	Protection Engineering Consultants (PEC) has teamed with Southwest	Strain rate, carbon-carbon composites, material testing,
II	Archarithms, Inc SBIR.gov	303 Williams Avenue Suite 131 Huntsville, AL	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 763-8781	HQ0860-20-C-7105	Advanced Data Management and Mining for BMDS	3/3/2022	The proposed research provides innovative complex data	Big Data, Database, NOSQL, Modeling and Simulation, Complex
II	Edaptive Computing, Inc. SBIR.gov	1245 Lyons Road Building G Dayton, OH 45458	Name: Adam Langdon Title: Principal	Name: Dr. Praveen Chawla Phone: (937) 433-	HQ0860-20-C-7106	Advanced Data Management and Mining for BMDS	2/22/2022	Propose to develop and deploy tools and methods for performing	Data analysis, Machine learning, Anomaly detection, Simulation
II	Rtsync Corp. SBIR.gov	6909 W Ray Rd STE 15-107 Chandler, AZ	Name: Bernard Zeigler Title: Chief Scientist	Name: Doohwan Kim Phone: (602) 334-6649	HQ0860-20-C-7107	Model Level Integrated Simulation	10/23/2021	We propose to develop a simulation architecture framework that enables	Discrete Event System Specification (DEVS), Modeling and Simulation
II	WARPIV TECHNOLOGIES , INC.	5230 Carroll Canyon Road, Suite 306	Name: Jeffrey Steinman Title: President &	Name: Jeffrey Steinman Phone: (858) 531-	HQ0860-20-C-7108	Model Level Integrated Simulation	2/12/2022	Proposed work will build on previous effort where twenty three	OpenUTF, WarpIV Kernel, MDEM, M&S, Composability,
II	Wecoso, LLC SBIR.gov	6741 Brentwood DR Huntington Beach,	Name: Carl Kirkconnell Title: President	Name: Carl Kirkconnell Phone: (714) 222-	HQ0860-20-C-7109	Hybrid Battery Supercapacitor for Space Applications	4/14/2021	West Coast Solutions (WCS), in collaboration with American Lithium	lithium ion, hybrid battery, supercap, supercapacitor,
II	Lynntech Inc. SBIR.gov	2501 Earl Rudder Freeway South College Station, TX	Name: Anuncia Gonzalez-Martin Title: Senior Scientist	Name: Shawn Rhodes Phone: (979) 764-	HQ0860-20-C-7110	High Power and High Energy Internal	4/5/2022	Lynntech proposes to develop an Internal Nanohybrid Battery-	Power Density, Rechargeable Power Systems, Space Systems,

II	FIBERTEK, INC. SBIR.gov	13605 Dulles Technology Drive Herndon, VA	Name: Keith Petrillo Title: Senior Electro Optics Scientist	Name: Tracy Perinis Phone: (703) 471- 7671	HQ0860-20-C- 7112	A Versatile low- SWaP Phase Modulation Unit	4/9/2022	Fibertek proposes the design and fabrication of a versatile low size	Phase modulation, High Energy Laser, SBS mitigation, Arbitrary
II	GENERAL SCIENCES INC SBIR.gov	205 Schoolhouse Road Souderton, PA	Name: Peter D Zavitsanos Title: President	Name: Peter D Zavitsanos Phone: (215) 723-	HQ0860-20-C- 7113	Hyper-Velocity Projectile (HVP) Warhead	10/23/2021	General Sciences, Inc. (GSI) proposes to incorporate highly	Hyper Velocity Projectile (HVP), chemical energy, kinetic warheads
II	NLogic, LLC SBIR.gov	4901 Corporate Drive Suite H Huntsville, AL	Name: Neil J Miller Title: Research Engineer	Name: Tim Thornton Phone: (256) 704- 2524	HQ0860-20-C- 7114	Graphics Processing Unit for Space-based	12/11/2021	In this effort we will fabricate a prototype or engineering	Graphics Processing Unit, GPU, Radiation Hardened, Low Earth
II	IDEAS ENGINEERING &	2350 Alamo Ave SE Suite 220 Albuquerque, NM	Name: Guillermo Alonzo Vera Rojas Title: President/CEO	Name: Guillermo Alonzo Vera Rojas Phone: (505) 933-	HQ0860-20-C- 7115	Graphics Processing Unit for Space-based	5/14/2022	Three Graphics Processing Unit (GPU) solutions for space-	Radiation Hardened by Design (RHBD), Graphics Processing Unit (GPU),
II	Srico Inc SBIR.gov	2724 SAWBURY BOULEVARD COLUMBUS, OH	Name: Vincent Stenger Title: Director R&D	Name: Sri Sriram Phone: (614) 578- 0684	HQ0860-20-C- 7116	Compact, Light- weight, High Power Handling	4/13/2022	Propose to develop an innovative fiber optic isolator that is compact	magnetless, isolator, asymmetric transmission, fiber optic,
II	Princeton Infrared Technologies,	9 Deer Park Drive Suite J-5 Monmouth	Name: Martin Ettenberg Title: President	Name: Martin Ettenberg Phone: (609) 917-	HQ0860-20-C- 7117	Advanced III-V Flash LADAR Camera SBIR.gov	6/4/2022	This research will develop a 128x128 detector element	detection, long range imaging, radiation hardened
II	NU TREK INC SBIR.gov	16955 Via Del Campo Suite 250 San Diego, CA	Name: Stephen Black Title: Sr. System	Name: Shelley Rowland Phone: (858) 487-	HQ0860-20-C- 7118	Photon Sensitive Camera SBIR.gov	5/17/2022	The Nu-Trek Team will develop a radiation hardened, photon	Single photon sensitivity, ROIC, radiation hardened
II	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Paul Pazandak Title: Director of	Name: Catherine Mekler Phone: (408) 990-	HQ0860-20-C- 7119	ConnexLogger: Intelligent Data Logging for MDA	7/20/2022	Modeling and Simulation systems, like OSF, can generate incredible	Intelligent Logging, Modeling and Simulation, Data
II	Real-time Innovations, Inc. SBIR.gov	232 East Java Drive Sunnyvale, CA	Name: Paul Pazandak Phone: (408) 990-	Name: Catherine Mekler Phone: (408) 990-	HQ0860-20-C- 7120	Semantic, Real- Time, Streaming Data Compression	5/13/2022	M&S systems generate from 1GB to 250GB of data per simulation run	modeling and simulation, data distribution service,
II	Eospace Inc. SBIR.gov	6222 185th Ave. NE Suite 100 Redmond, WA	Name: David Moilanen Title: Principal	Name: Chung-Ping Chien Phone: (425) 869-	HQ0860-20-C- 7121	Advanced Phase Modulation Techniques for	2/2/2022	Advanced phase modulation techniques, radio-frequency (RF)	High Power Fiber Lasers, Stimulated Brillouin Scattering, Phase

II	Sentar, Inc. SBIR.gov	315 Wynn Drive Suite 1 Huntsville, AL	Name: Deborah Williams Title: Director -	Name: Jill Malliet Phone: (256) 430-0860	HQ0860-20-C-7122	Real-time Application Security in a	1/14/2022	For Structured Application Protection Process-Cyber Mission	Cyber mission impact, quantified cyber impact, mission risk, cyber
II	Fifth Gait Technologies, Inc. SBIR.gov	5531 Somerset Dr. Santa Barbara, CA, CA 93111	Name: Rudolf Goldflam Title: Chief Scientist	Name: Jonathan Fisher Phone: (256) 541-	HQ0860-20-C-7123	Test Methodology and Equipment for Radiation	12/9/2024	The NICSSim test-bed is a two-color sensor test chamber capable of	IR Sensor Test, Radiation, FPA, Sensor emulation, Test facility,
II	Physics, Materials, and Applied	1665 E. 18th Street Suite 112 Tucson, AZ 85719	Name: Kevin Kremeyer Title: Vice President	Name: Margaret Chiang Phone: (310) 261-	HQ0860-20-C-7124	Impulsive Energy Deposition for High-Speed Flight	2/18/2022	In the proposed effort, we will establish all of the basic components	supersonic, speed, range, drag-reduction, control, efficiency
II	Polaris Sensor Technologies, Inc. SBIR.gov	200 Westside Square Suite 320 Huntsville, AL	Name: John Harchanko Title: Director of	Name: David Chenault Phone: (256) 562-	HQ0860-20-C-7125	Multi-modal EOIR Detection for Target Acquisition	4/29/2022	Polaris Sensor Technologies (Polaris) is proposing to leverage	multimodal detection, high speed photography, EOIR, acquisition and
II	Advanced Silicon Carbide Materials, LLC	3038 Aukele Street Lihue, HI 96766	Name: William Fischer Title: Director of	Name: Lauren Montgomery Phone: (808) 245-	HQ0860-20-C-7126	Transparent CVC SiC Windows for THAAD SBIR.gov	4/22/2022	Ceramics have utility as optically transparent materials in optical	silicon carbide, transparent, CVC, randome, optical
II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0860-20-C-7127	Kinematic Reach/Containment SBIR.gov	1/28/2022	Valley Tech Systems (VTS) has developed a new solid extinguishable	ACS, Solid Propellant, Extinguishable/Controllable Solid Propulsion,
II	ASRC Federal Astronautics, LLC SBIR.gov	289 Dunlop Blvd Building 300 Huntsville, AL	Name: Melissa Forton Title: Staff	Name: Joseph Sims Phone: (256) 562-2191	HQ0860-20-C-7128	Additively Manufactured Refractory Metal	3/31/2022	Seek to optimize end-to-end additive manufacturing process	Additive manufacturing, Refractory metal, Tungsten alloys,
II	COMBUSTION RESEARCH AND FLOW	6210 Kellers Church Road Pipersville, PA	Name: John Papp Title: Senior Research Scientist	Name: Neeraj Sinha Phone: (215) 766-1520	HQ0860-20-C-7129	Missile Plume Analysis and Modeling for High	5/20/2022	The proposed effort under this SBIR Second Phase II will be focused	transient, wake, plume, signatures, software, radiation
II	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jennifer Steinhauser Title: Engineer VIII	Name: Dr. J. Brent Romine Phone: (256) 327-	HQ0860-20-C-7130	Advanced Data Management and Mining for BMDS	3/22/2021	Sherlock is a data mining solution that will aid in the discovery of	data analysis, machine learning, big data, digital, ground test
II	MANTIS COMPOSITES INC. SBIR.gov	3986 Short St Ste 100 San Luis Obispo,	Name: Ryan Dunn Phone: (661) 769-6793	Name: Ryan Dunn Title: Chief Operating Officer	HQ0860-20-C-7131	3D Printed Ceramic Matrix Composites for	1/29/2022	Mantis Composites supplies weight saving components for high	printing, 3D, CMC, C-C, C-SiC, ceramic, leading

II	Karagozian & Case, Inc. SBIR.gov	700 N. Brand Blvd. Suite 700 Glendale, CA	Name: Joe Magallanes Title: President &	Name: Joseph Abraham Phone: (818) 240-	HQ0860-20-C-7132	Methodologies for Cost-Effective Measurement of	5/4/2022	K&C is proposing a Phase II SBIR project to further develop and	Carbon-carbon, Dynamics, Test Methodologies, Dynamic
II	D'Angelo Technologies, LLC SBIR.gov	2685 Cevennes Terrace Beaver creek, OH	Name: Joseph D'Angelo Phone: (937) 271-	Name: Maurissa DAngelo Phone: (216) 650-	HQ0860-20-C-7139	Non-Destructive Testing Methods for Detecting Red	5/10/2021	The technical objective for the Second Phase II is to continue to develop	Red Plague, Corrosion Detection, improved reliability and safety,
II	Arete Associates SBIR.gov	9301 Corbin Avenue Suite 2000 Northridge, CA	Name: Tim Klein Phone: (256) 727-3348	Name: Greg Fetzer Phone: (303) 651-6756	HQ0860-20-C-7140	CAMDEN SBIR.gov	9/20/2022	The domain of battle for missile defense, once focused around launch	Artificial Intelligence, Left of Launch, Battle Management, Spatial
II	ISSAC Corp SBIR.gov	6760 Corporate Drive Suite 240 Colorado Springs,	Name: Tom Henry Phone: (719) 725-6906	Name: Timothy Jones Phone: (719) 325-	HQ0860-20-C-7140	Enhancement of Ballistic Missile Defense System	3/3/2022	Technology for Knowledge/Data Management is required	Knowledge Discovery, Data Fusion, Graph Database, Query
II	ATC-NY, Inc. SBIR.gov	P.O. Box 422 Trumansburg, NY 14886-0422	Name: Judson Powers Title: Technical	Name: Richard Smith Phone: (607) 257-1975	HQ0860-20-C-7141	Development of High Performance Computing (HPC)	8/9/2022	DASH will enable MDA to obtain orders-of-magnitude gains in the	graphics processing unit (GPU), field-programmable gate
II	NU TREK INC SBIR.gov	16955 Via Del Campo San Diego, CA	Name: Stephen Black Phone: (805) 895-	Name: Miriam Rauch Phone: (858) 798-1584	HQ0860-20-C-7142	Radiation Hardened Interceptor Seeker	6/7/2022	Nu-Trek will develop a radiation hardened Focal Plane Array (FPA)	FPA, ROIC, readout integrated circuit, Tier 2, SWIR/MWIR, rad hard,
II	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0860-20-C-7144	Advanced Exo-atmospheric Propulsion and	7/8/2022	The Missile Defense Agency (MDA) is developing new	Thrust Vector Control, THAAD, SM3, ACS, Solid Propellant, Controllable
III	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0860-20-C-7144	Electric Hydraulic Thruster - Hot Gas Test			
II	Seed Innovations, LLC SBIR.gov	19960 Capella Drive Monument, CO	Name: M Douglas Williams Title: Principal	Name: Marlu Oswald Phone: (719) 306-5814	HQ0860-20-C-7145	Flexible Integrated Simulation Architecture –	7/29/2021	Seed Innovations will design and develop a prototype system, the	Modeling and Simulation, Automated Provisioning,
II	OPTIMIZATION TECHNOLOGIES, INC.	2241 17th Street Boulder, CO 80302 United States	Name: Benjamin Thengvall Title: Vice President	Name: James Kelly Phone: (303) 447-3255	HQ0860-20-C-7146	OptDef Web Deployment and Study Repository	7/19/2022	In our Phase II effort, we have two primary research objectives. The	simulation optimization, enterprise web application, study

II	INTELLIGENT AUTOMATION, INC. SBIR.gov	15400 Calhoun Drive Suite 400 Rockville, MD	Name: Peng Xie Title: Lead Scientist Phone: (301) 294-	Name: Mark James Phone: (301) 294-5221	HQ0860-20-C-7147	Onboard Flash Compensation for Exoatmospheric	8/26/2022	Intelligent Automation, Inc. (IAI) will continue to enhance innovative flash	image processing, flash compensation, saturated image compensation
II	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Blaine Farber Title: Principal Investigator	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0860-20-C-7147	Innoflight Middleware System (IMS)	9/28/2022	MDA has a need for adaptive imaging for space and exo-	General Purpose Graphics Processing Unit (GPGPU), Field
II	MAINSTREAM ENGINEERING CORPORATION	200 Yellow Place Pines Industrial Center	Name: Brian Tucker Phone: (321) 631-3550	Name: Michael Rizzo Phone: (321) 631-3550	HQ0860-20-C-7148	Additively Manufactured Internally Cooled	9/23/2022	Mounting of infrared (IR) windows on hypersonic vehicles is a critical	
III	Polaris Sensor Technologies, Inc. SBIR.gov	200 Westside Square Suite 320 Huntsville, AL		Name: David Chenault Phone: (256) 562-	HQ0860-20-C-7149	Multiple Images Spatial Turbulence Imager (MISTI)	6/3/2022		
II	Scalable Network Technologies,	6167 Bristol Parkway Suite #400	Name: Ung-Hee Lee Phone: (310) 338-3318	Name: Rajive Bagrodia Phone: (310) 338-	HQ0860-20-C-7152	Overhead Persistent Infrared Enterprise	8/11/2022	Understanding the end-to-end performance of distributed missile	Performance evaluation of distributed missile defense applications,
II	NOKOMIS, INC SBIR.gov	310 5th St. Charleroi, PA 15022	Name: Dr. Adam Brant Title: Scientist	Name: Eli Polovina Phone: (724) 483-3946	HQ0860-20-C-7400	An Embedded Health Monitoring System for	7/8/2022	Nokomis Plans to further advance prototype Hiawatha-MEMS	Electronics health monitoring, Micro-electro-mechanical
II	MAINSTREAM ENGINEERING CORPORATION	200 Yellow Place Rockledge, FL 32955	Name: Dr. Josh Sole Phone: (321) 631-3550	Name: Mr. Michael Rizzo Phone: (321) 631-	HQ0860-20-C-7401	Weapon Inspection, Sustainment and	7/8/2022	Mainstream Engineering Corporation (MEC) is developing a prognostic	Prognostic health monitoring, PCB failure modes, missile
II	ENGIN-IC, INC. SBIR.gov	1721 W PLANO PKWY STE 121 Plano, TX 75075	Name: Steve Nelson Phone: (972) 332-5000	Name: Chris Ison Phone: (972) 332-5000	HQ0860-20-C-7402	Solid State High Power Amplifiers and Other	7/8/2022	Under a previous SBIR ENGIN-IC demonstrated a Solid-State, GaN Power	GaN MMICs, SSPAs, T/R modules, High efficiency, Phase shifters, Phased
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Griffin Gothard Phone: (321) 775-	Name: Daniel Faircloth Phone: (256) 319-	HQ0860-20-C-7403	Innovative Antenna Arrays Enabling	7/8/2022	IERUS Technologies proposes to extend previous work and	phased array, antenna, interceptor, communications,
II	INNOWAVE, INC SBIR.gov	4 Russell Rd Acton, MA 01720 United States	Name: Yusuke Tajima Phone: (978) 314-	Name: Yusuke Tajima Phone: (978) 314-	HQ0860-20-C-7404	Solid State Power Amplifier	7/8/2022	None provided	K-band, Power amplifier, MMIC, GaN, phased arrays, beamformer,

II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Stephen Hummel Title: Principal	Name: Tracy Williams Phone: (405) 410-	HQ0860-20-C-7405	Daigle	7/8/2022	Leveraging lessons learned from a previous SBIR, Corvid	Telemetry, Radio frequency communication, Light-
II	TOUCHSTONE RESEARCH LABORATORY	1142 Middle Creek Road Triadelphia, WV	Name: Brian Gordon Title: Senior Program Manager/Lab	Name: Brian Gordon Phone: (304) 547-5800	HQ0860-20-C-7406	Carbon Foam Lightning and Thermal	7/8/2022	Touchstone proposes to continue the development of an	carbon, foam, lightning protection, thermal protection, TPS,
II	Physical Optics Corporation SBIR.gov	1845 West 205th Street Torrance, CA	Name: Ninad Patnekar Phone: (310) 320-	Name: Keith Baker Phone: (310) 320-3088	HQ0860-20-C-7407	Grounding Multilayer Missile Coating for	7/8/2022	Physical Optics Corporation (POC) proposes to continue	lightning protection, missile body, electro-magnetic pulse,
III	Fifth Gait Technologies, Inc. SBIR.gov	5531 Somerset Dr. Santa Barbara, CA, CA 93111	Name: Rudolf Goldflam Title: Chief Scientist	Name: Jonathan Fisher Phone: (256) 541-	HQ0860-20-D-7201	Test Methodology and Equipment for Radiation	12/9/2024	Logical follow-on contract to: HQ0860-20-C-7123	
III	Integration Innovation, Inc. SBIR.gov	689 Discovery Drive, Bldg. 1, Suite 500	Name: Timothy Johnson Phone: (937) 307-	Name: Danny Tollison Phone: (256) 562-	HQ0860-20-D-7202	Advanced Material Testing			
III	PeopleTec, Inc. SBIR.gov	4901-D Corporate Drive Huntsville, AL		Name: Marsha H Latham Phone: (256) 319-	HQ0860-20-D-7203	Testing, Modeling, Analysis and Data Mining of BMDS	9/13/2025		
I	Advanced Cooling Technologies,	1046 New Holland Avenue LANCASTER, PA	Devon.Jensn@1-act.com		HQ0860-21-C-7000	Solid Rocket Motors for High Performance	6/30/2021	The advent of hypersonic attacks is pushing the current	Nano particles, hydrogen plasma, oxide removal, metal borides,
I	Agile Decision Sciences, LLC	350 VOYAGER WAY STE 100B, Huntsville AL 358	philip.feldman@asrc-federal.com		HQ0860-21-C-7001	Automated Factor-Based Sensitivity Analysis	6/30/2021	There is a large space of threat data, scenarios, and input variables	Artificial Intelligence, Machine Learning, Modeling & Simulation,
I	Alphacore, Inc. SBIR.gov	398 South Mill Avenue, Suite 304 Tempe, AZ 85281-	engineering@alphacoreinc.com	Name: Kimberlee Olson Phone: (480) 494-	HQ0860-21-C-7002	High-Reliability Rad-Hard DC-DC Converter	6/30/2021	In response to Department of Defense SBIR topic MDA20-006,	DC-DC Converter, Radiation-Hardened, High-Reliability, Low
I	Applied Nanotech, Inc. SBIR.gov	8200 Cameron Road Suite B160 Austin, TX 78754-	Name: Richard Fink Phone: (512) 636-1867	Name: Richard Fink Phone: (512) 636-1867	HQ0860-21-C-7003	Manufacturability Study For Flexible Printed RF	6/30/2021	Printing flexible or conformal electronics is becoming mature. What	3D printing, certification, production, Additive Manufacturing; RF;

I	Archarithms, Inc SBIR.gov	303 Williams Avenue Suite 131 Huntsville, AL	Name: Mark Lambrecht Title: Chief Scientist	Name: Randy Riley Phone: (256) 763-8781	HQ0860-21-C-7004	Lightweight Structural Metamaterials for	6/30/2021	With the development and demonstration of near peer hypervelocity	MAX Phases, Metalized Ceramics, Advanced Rocket Motors,
I	ATTOLLO ENGINEERING, LLC SBIR.gov	161 Camino Ruiz Camarillo, CA 93012-1111	michael.macdougall@attolloengineering.com	Name: Tony Vengel Phone: (805) 384-8046	HQ0860-21-C-7005	Low-Cost Space Based Cryocoolers	6/30/2021	years, and high reliability as the ability to maintain or repair the cooler once	Cryocoolers, Low cost cryocooler, low SWaP Cryocooler, stirling
I	BRIMROSE TECHNOLOGY CORPORATION	P.O. Box 616 19 Loveton Circle Sparks, MD 21152-	ccwang@brimrose.com	Name: Diane Murray Phone: (936) 588-6901	HQ0860-21-C-7006	Bi-Modal Technology for In-situ Defect	6/30/2021	A bi-modality approach is proposed to offer in-situ assessment on the	Additive Manufacturing, Hyperspectral Imaging, Phase-Shifting
I	Castheon Inc	2697 Lavery Ct # 19, Thousand Oaks, CA 91320	ygao@castheon.com		HQ0860-21-C-7007	Performance Improvements of Additive	6/30/2021	Metal additive manufacturing has demonstrated significant	additive manufacturing, radio frequency, antennas, waveguides,
I	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440-	aberkk@crgrp.com	Name: Stephen D Vining Phone: (937) 320-	HQ0860-21-C-7008	Biomimetic, Flexible Thermal Protection	6/30/2021	Cornerstone Research Group (CRG) is enabling optimized performance	Hypersonics, Morphing, Adaptive Structures, Smart Materials,
I	Cornerstone Research Group,	2750 Indian Ripple Road Dayton, OH 45440-	aberkk@crgrp.com	Name: Stephen D Vining Phone: (937) 320-	HQ0860-21-C-7009	Optimization of Cellular Beam Control Systems	6/30/2021	Cornerstone Research Group (CRG) will develop add-on	Beam Control, Topology Optimization, Cellular Structures, Vibrational
I	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: David Stowe Title: Principal Investigator	Name: David Robinson Phone: (704) 799-	HQ0860-21-C-7010	Solid Rocket Motors for High Performance	6/30/2021	Corvid Technologies, in partnership with Aerojet-Rocketdyne, proposes	functionally-graded propellant grain, adaptive expansion-
I	CU AEROSPACE L.L.C. SBIR.gov	3001 Newmark Dr. Champaign, IL 61822-1111	cmangun@cuaerospace.com	Name: David Carroll Phone: (217) 778-6461	HQ0860-21-C-7011	Low Cost High Efficiency Cryocooler Cold	6/30/2021	CU Aerospace (CUA) and team partner Lockheed Martin Space (LMS)	Cryocooler, long life cryocooler, low cost cryocooler, regenerator,
I	EDWARD POPE DR SBIR.gov	31304 Via Colinas, Suite 102 Westlake Village,	alden.moore@matechgsm.com	Name: Mr. Michael Bailey Phone: (818) 991-	HQ0860-21-C-7012	Flexible TPS Materials	6/30/2021	Adaptable or morphing geometries enable shape change during	Elastic, flexible, thermal protection system, high Mach, adaptive,
I	Electron Energy Corporation	924 Links Avenue Landisville, PA 17538	hchoi@electronenergy.com		HQ0860-21-C-7013	Low-Cost Compressor Motor for High Efficiency	6/30/2021	There are currently no low-cost, long-life, space quality cryocoolers	Low cost cryocooler, High efficiency compressor motor, Rare

I	Exquadrum, Inc. SBIR.gov	12130 Rancho Road Adelanto, CA	Name: Kevin Mahaffy Title: President&CEO	Name: Eric Schmidt Phone: (760) 246-0279	HQ0860-21-C-7014	ULTRA Interceptor Stage	6/30/2021	During the proposed Phase I research and development effort, the	Rocket propellant, Highly Loaded Grain, Solid Rocket Motor,
I	Freedom Photonics LLC SBIR.gov	41 Aero Camino Santa Barbara, CA 93117	pleisher@freedomphotonics.com	Name: Leif Johansson Phone: (805) 967-	HQ0860-21-C-7015	Efficient power-scalable and diffraction-limited	6/30/2021	Diode lasers now deliver very high powers at high efficiency, with ~70%	high power diode lasers, high energy laser, HEL, directed energy weapon,
I	INNOVATIVE DEFENSE TECHNOLOGIES	4401 Wilson Boulevard Suite 810	mpillion@idtus.com	Name: Teddy Kidd Phone: (703) 522-4032	HQ0860-21-C-7016	Automated Factor-Based Sensitivity Analysis	6/30/2021	Large defense systems composed of numerous integrated subsystems	Missile Defense System (MDS), Modeling and Simulation (M&S),
I	Intelligent Optical Systems, Inc.	2520 W. 237th Street Torrance, CA -	marvink@intopsys.com	Name: Reuben Sandler Title: Chief Executive	HQ0860-21-C-7017	Laser Ultrasonic Strength Validation of	6/30/2021	Metal parts produced by additive manufacturing (AM) are scanned by	3D printing, inspection, certification, qualification,
I	Intellisense Systems, Inc. SBIR.gov	20600 Gramercy Place Torrance, CA	ars@intellisenseinc.com	Name: Gerrit Vanden Brink Phone: (310) 320-	HQ0860-21-C-7018	Novel Carbon Fiber Layup and Engineered	6/30/2021	To address the MDA need for significant reductions of mass and	Carbon fiber, additive manufacturing, part optimization,
I	Intellisense Systems, Inc. SBIR.gov	20600 Gramercy Place Torrance, CA	eos@intellisenseinc.com	Name: Gerrit Vanden Brink Phone: (310) 320-	HQ0860-21-C-7019	Nondestructive Internal Flaw Detector	6/30/2021	To address the MDA need for an innovative, non-destructive	Thermography, laser ultrasonic, pulses laser, 3D additive
I	Koo & Associates International,	6402 Needham Lane Austin TX, 78739	jkoo1951@gmail.com		HQ0860-21-C-7020	Low-density Flexible TPS Materials for	6/30/2021	The innovation of this proposal “Low-Density Flexible TPS Material for	Flexible TPS materials, Thermal Protection Systems, Conformable
I	LASER OPERATIONS LLC SBIR.gov	15632 Roxford St. Sylmar, CA 91342-1265	Name: Jeffrey Ungar Title: Chief Technology Officer	Name: Ivalee Francia Phone: (818) 986-0000	HQ0860-21-C-7021	Ultra-High Efficiency Diffraction-Limited	6/30/2021	Fiber-lasers are much less efficient than direct diode lasers because of	laser diode, MOPA, high efficiency, high power, high beam quality,
I	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087-	gary.tiscia@m-r-d.com	Name: Kent Buesking Phone: (610) 964-6130	HQ0860-21-C-7022	Tantalum Carbide Forming MAX Phase Material for	6/30/2021	Recent developments with the maturation and characterization of MAX	MAX phases, metamaterial, tantalum carbide, advanced
I	Metrolaser, Inc. SBIR.gov	22941 Mill Creek Drive Laguna Hills, CA	Name: James Trolinger Phone: (949) 553-	Name: Christina Arnold Phone: (949) 553-	HQ0860-21-C-7023	Non-Destructive Evaluation of Additive	6/30/2021	Additive manufacturing technology enables field production of spare	NDE, 3D printing, certification, acoustical spectroscopy, Additive

I	MILANOWSKI & ASSOCIATES, INC. SBIR.gov	2726 Shelter Island Drive Suite 268	Name: Dr. Randall Milanowski Title: Principal	Name: Dr. Randall Milanowski Phone: (619) 865-	HQ0860-21-C-7024	Rad Hard DC DC Converter	6/30/2021	M&A Inc. proposes a DC-DC converter product development effort that	radiation hardened, power management, dc-dc converter, rad hard
I	MZA Associates Corporation SBIR.gov	2021 Girard Blvd. SE Suite 150 Albuquerque, NM	nick.delucca@mza.com	Name: Robert Praus, II Phone: (505) 245-	HQ0860-21-C-7025	Jitter Reduction in Light Weight Beam Control Devices	6/30/2021	MZA is proposing to use both system and component level finite	Beam Control, Low SWaP, Jitter Reduction, Lightweight Materials,
I	NANOHMICS INC SBIR.gov	6201 East Oltorf St. Austin, TX 78741	afoley@nanohmics.com	Name: Michael Mayo Phone: (512) 389-	HQ0860-21-C-7026	Additive Manufacturing Process Kits for RF	6/30/2021	In missile defense applications, on-board radio frequency (RF)	Additive manufacturing, Radio frequency, Flexible substrates,
I	Nanosonic Inc. SBIR.gov	158 Wheatland Drive Pembroke, VA	roclaus@nanosonic.com	Name: Melissa Campbell Phone: (540) 626-	HQ0860-21-C-7027	Effects of Additive Manufacturing on the Performance	6/30/2021	The problem this SBIR program addresses is determining the effects	additive manufacturing, micro-CT x-ray, RF on flexible substrates,
I	Numerica Corporation SBIR.gov	5024 Technology Parkway Suite 100 Fort Collins, CO	bret.kragel@numerica.us	Name: Jeff Poore Phone: (970) 207-2211	HQ0860-21-C-7028	Automated Factor-Based Sensitivity Analysis	6/30/2021	Numerica proposes a novel approach to automated factor-based	factor-based sensitivity analysis, low-rank tensor models, dimensionality
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	jws@psicorp.com	Name: David Weatherby Phone: (978) 738-	HQ0860-21-C-7030	Flexible TPS	6/30/2021	The Physical Sciences Inc. (PSI) Team will develop ultrathin	ceramic composite, hypersonics, flexible ceramics, thermal
I	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	jws@psicorp.com	Name: David Weatherby Phone: (978) 738-	HQ0860-21-C-7031	3D Reinforced C/SiC	6/30/2021	Physical Sciences Inc. (PSI) proposes to demonstrate a Direct Z-	3D reinforcement, interlaminar reinforcement, 3D
I	Princeton Innotech Inc	11 Glengarry Way, West Windsor Township, NJ	chuni.ghosh@princetoninnotech.com		HQ0860-21-C-7032	High Power, Single Mode, Diode Emitter for	6/30/2021	MDA is interested in developing single mode high power diode lasers	Diode lasers, High power single mode diode laser, High power coherently
I	Qortek, Inc. SBIR.gov	1965 Lycoming Creek Road Williamsport, PA	gbower@qortek.com	Name: Zachary Stimely Phone: (570) 322-	HQ0860-21-C-7033	Low Voltage, High Reliability Radiation	6/30/2021	The proposed program will result in a novel design for a Hi-Rel, rad-	Low voltage power supply, Rad-hard ASIC controller, Space
I	Radiation Monitoring Devices, Inc.	44 Hunt Street Watertown, MA 02472-4699	vnagarkar@rmdinc.com	Name: Joanne N Gladstone Title: PMO	HQ0860-21-C-7034	Rapid Determination of Strength and	6/30/2021	Additive manufacturing is rapidly a growing fabrication process due	Non-destructive evaluation (NDE), machine learning,

I	SI2 TECHNOLOGIES, INC.	267 Boston Road North Billerica, MA 01862	Name: Dr. Erik Handy Phone: (978) 495-	Name: Noel Marie Burgoa Phone: (978) 495-	HQ0860-21-C-7035	Non-Destructive Techniques for Characterization	6/30/2021	SI2 Technologies, Inc. (SI2) proposes to develop a	Printed electronics, printed antenna, additive manufacturing,
I	TDA Research, Inc. SBIR.gov	12345 W. 52nd Ave. Wheat Ridge, CO	Name: Michael Diener Title: Principal	Name: John Wright Phone: (303) 940-2300	HQ0860-21-C-7037	Rapid Manufacturing of Toughened	6/30/2021	Combining extraordinarily high specific strength and	Carbon-carbon composites, Thermal protection systems,
I	TECHNOLOGY ASSESSMENT AND	133 Defense Highway, Suite 212	Name: Larry Fehrenbacher Phone: (410) 224-	Name: Larry Fehrenbacher Phone: (410) 224-	HQ0860-21-C-7038	Rapid Process for UHTCMC Thermal Protection	6/30/2021	This Phase 1 proposal will demonstrate the performance and	Ultra high Temperature, Ceramic Matrix Composites,
I	Triton Systems, Inc. SBIR.gov	200 Turnpike Road Chelmsford, MA 01824	jryu@tritonsystems.com	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-21-C-7039	High Burning Rate Nanoenergetic Additive for HLG	6/30/2021	Triton Systems proposes to develop and demonstrate the	Nanoenergetics, nanothermites, advanced rocket
I	Triton Systems, Inc. SBIR.gov	200 Turnpike Road Chelmsford, MA 01824	jblum@tritonsystems.com	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-21-C-7040	AM of RF Circuits	6/30/2021	The Missile Defense Agency desires an additive manufacturing	Radio Frequency, Additive Manufacturing, Flexible Substrate
I	Triton Systems, Inc. SBIR.gov	200 Turnpike Road Chelmsford, MA 01824	agavrin@tritonsystems.com	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-21-C-7041	TPS Material with Enhanced Toughness and	6/30/2021	The Missile Defense Agency is seeking methods to produce	C-C composite, Thermal Protection System, carbon-carbon 2D
I	Ultramet SBIR.gov	12173 Montague Street Pacoima, CA	Name: Timothy Stewart Title: Senior	Name: Craig Ward Phone: (818) 899-0236	HQ0860-21-C-7042	MAX Phase Coating for High Temperature and	6/30/2021	Missile defense interceptors experience very high axial and	missile defense, interceptor missile, control surface, coating,
I	Ultramet SBIR.gov	12173 Montague Street Pacoima, CA	Name: Timothy Stewart Title: Senior	Name: Craig Ward Phone: (818) 899-0236	HQ0860-21-C-7043	Refractory Metal Foam Core Sandwich Panel	6/30/2021	Hypersonic air platform component functionality and survivability in the	hypersonic, thermal protection system, flexible, elastic,
I	Valley Tech Systems, Inc. SBIR.gov	160 Blue Ravine Road, Ste A Folsom, CA 95630	Name: Russell Carlson Title: VP Aerospace	Name: Russell Carlson Phone: (707) 696-	HQ0860-21-C-7044	Lightweight Structural Metamaterials for	6/30/2021	Valley Tech Systems has developed Hot Gas Valve (HGV) and	Metamaterial, Thruster, Hot Gas Valve, CMC, Refractory Metal,
I	Voxel Innovations, Inc. SBIR.gov	3420 Tarheel Dr. Suite 300 Raleigh, NC 27609	Name: Eric Rountree Title: Principal Scientist	Name: Eric Rountree Phone: (984) 234-9712	HQ0860-21-C-7045	Cost Reduction and Maximized Performance of	6/30/2021	Cryocoolers are a critical enabling technology for space-based infrared	Pulse Tube Cryocooler, Heat Exchanger, High-Aspect Ratio Machining,

I	WARPIV TECHNOLOGIES , INC.	5230 Carroll Canyon Road, Suite 306	Name: Jeffrey Steinman Title: President &	Name: Jeffrey Steinman Phone: (858) 531-	HQ0860-21-C-7046	Automated Factor-Based Sensitivity Analysis	6/30/2021	WarpIV Technologies, Inc. proposes to develop a Response Surface	Response Surface, Sensitivity Analysis, Design of Experiments,
II	VALT Enterprises, LLC	312 N Blatchford St McLean, IL 61754	karl.hoose@valt-ent.com		HQ0860-21-C-7100	VALT Hypersonic Flight Testbed / Booster	11/22/2023	Hypersonic system development is a priority for the Department of	Hypersonic, Flight Test, Scramjet, Ramjet, Rocket, Space access
II	Beyond Photonics, LLC SBIR.gov	6205 Lookout Road, Ste. B Boulder, CO 80301	Name: Sammy W Henderson Title: President and	Name: Charley Hale Phone: (303) 475-2088	HQ0860-21-C-7101	Compact Efficient LADAR for Target Detection and	3/1/2023	Improved long-range detection, tracking, and discrimination of targets	ladar, lidar, coherent detection, two micron, Tm:fiber
II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Tony Nelson Title: Principal Investigator	Name: Tracy Williams Phone: (405) 410-	HQ0860-21-C-7102	Innovative Ejector Launch System	2/4/2023	The Missile Defense Agency is interested in the development of cold-	Missile, launcher, cold launch, vertical launcher system, ship safety
II	Corvid Technologies LLC SBIR.gov	145 Overhill Drive Mooresville, NC 28117	Name: Stephen Hummel Title: Principal	Name: Tracy Williams Phone: (405) 410-	HQ0860-21-C-7103	Lightweight Fins for Enhanced Maneuverability of	1/25/2023	Corvid Technologies is pleased to submit this Phase II proposal for the	Tailfin, optimization, Computational Fluid Dynamics, Finite
II	CREATE LLC SBIR.gov	16 Great Hollow Road Hanover, NH	Name: Roger W Hill Title: Principal Investigator	Name: Betsy Williams Phone: (603) 640-	HQ0860-21-C-7104	Modeling of High-Power Fiber Laser Performance	1/25/2023	Narrow line width fiber lasers have great potential for high-power	Fiber, laser, power scaling, multiphysics software
II	Edaptive Computing, Inc. SBIR.gov	1245 Lyons Road Building G Dayton, OH 45458	Name: Carl Brandon Title: Principal Developer I	Name: Dr. Praveen Chawla Phone: (937) 433-	HQ0860-21-C-7105	Automatic Code Repair	11/9/2022	Our proposal addresses the solicitation requirements: we will	Automatic code repair, Cyber vulnerabilities, Scanning tools, Machine
II	GENERAL SCIENCES INC SBIR.gov	205 Schoolhouse Road Souderton, PA	Name: Peter D Zavitsanos Title: President	Name: Peter D Zavitsanos Title: President	HQ0860-21-C-7106	MIL-STD-1901A Compliant Igniter Energetic for Solid	12/20/2022	The Phase I program developed and tested several energetic	Igniters, Solid Rocket Motors, Pyrotechnical composition,
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Daniel Faircloth Title: Chief Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0860-21-C-7107	Microparticle Quenching Strategies for	2/18/2023	Hypersonic vehicles experience an extraordinarily harsh	plasma, microparticles, hypersonic, trajectory, cutoff frequency,
II	IERUS TECHNOLOGIES , INC SBIR.gov	2904 Westcorp Blvd Suite 210 Huntsville, AL	Name: Griff Gothard Title: Senior Research Engineer	Name: Billy Todd Phone: (256) 319-2026	HQ0860-21-C-7108	Rugged Antennas for Missile After Plate Installation	2/24/2023	IERUS Technologies is pursuing development of updated antenna	Antenna, Modeling and Simulation, Qualification Testing, RF Systems

II	Innoflight, Inc. SBIR.gov	9985 Pacific Heights Blvd Suite 250	Name: Austin Owens Title: Lead Engineer Phone: (858) 332-	Name: Jeffrey L. Janicik Phone: (858) 638-	HQ0860-21-C-7109	Radiation Hardened Machine Vision	12/17/2022	For this study, Innoflight is pursuing an object-tracking use case for a	radiation, man made radiation, Graphics Processing Unit (GPU),
II	MATERIALS RESEARCH & DESIGN INC	300 E. Swedesford Rd Wayne, PA 19087	Name: Daniel Hladio Title: Senior Research Engineer	Name: Gary Tiscia Phone: (610) 964-9000	HQ0860-21-C-7111	Determination of Carbon-Carbon Hydrocode	1/11/2023	Material models utilized by hydrocode programs (EPIC, Velodyne) require	Hydrocode, User Material, Carbon-carbon, Uncertainty
II	Polaris Sensor Technologies, Inc. SBIR.gov	200 Westside Square Suite 320 Huntsville, AL	Name: John Harchanko Title: Director of	Name: David Chenault Phone: (256) 562-	HQ0860-21-C-7113	Compact Lightweight Deformation	12/20/2022	The rapidly emerging capabilities of hypersonic-velocity	hypersonic weapons, seeker window deformation, real-time
II	POLYMATERIAL S APP, LLC SBIR.gov	3802 Spectrum Blvd, Suite 145 Tampa, FL 33612	Name: Manoj K Ram Title: President Phone: (727) 233-	Name: Manoj Ram Phone: (727) 251-3098	HQ0860-21-C-7114	Cellulose Based Flexible Solid State High power and	4/20/6037	PolyMaterials App, LLC proposes to develop a prototype	Supercapacitor, specific capacitance, specific power, cellulose,
II	Ram Photonics LLC SBIR.gov	9710 Scranton Rd., Suite 100 San Diego, CA	jgeddes@ramlabs.com	Name: John Marciante Phone: (585) 771-	HQ0860-21-C-7115	Self-Coding Cyber Fixes	12/15/2022	When deploying software to systems running in secure	Bug Fixes, Vulnerability Patches, Deep Learning, Artificial Intelligence,
II	Ram Photonics LLC SBIR.gov	9710 Scranton Rd., Suite 100 San Diego, CA	Name: John Marciante Title: President	Name: John Marciante Phone: (585) 771-	HQ0860-21-C-7116	Fiber Laser Integrated Performance	12/17/2022	Military DEWs place stringent requirements on fiber laser that	fiber laser, fiber amplifier, modeling and simulations, directed
II	Secmation, LLC SBIR.gov	1017 Main Campus Drive Suite 1501	Name: Hal Aldridge Title: CEO Phone: (919) 887-	Name: Hal Aldridge Phone: (919) 887-2560	HQ0860-21-C-7117	Anneal – Real-Time Embedded Hypervisor with	12/15/2022	The complexity of software in embedded applications from the	Cybersecurity, anti-tamper, real-time, critical program
II	Seed Innovations, LLC SBIR.gov	19960 Capella Drive Monument, CO	Name: M Douglas Williams Title: Senior	Name: Marlu Oswald Phone: (719) 306-5814	HQ0860-21-C-7118	AGAVM Phase II	12/21/2020	Seed Innovations designs and develops a prototype system, the	Cybersecurity, Code Generation, Machine Learning, Self-Coding,
II	STILMAN ADVANCED STRATEGIES,	501 S Cherry St, Suite 1100 Denver, CO 80246	Name: Vlad Yakhnis Title: VP Science & Technology	Name: Vlad Yakhnis Phone: (303) 809-0205	HQ0860-21-C-7119	LG AI-based Battle Management (BM) for Integrated Air	2/3/2023	Manual multi-domain kill chain planning for Integrated Air and	Artificial Intelligence (AI), Explainable AI, decision support,
II	Systems & Processes Engineering	4120 Commercial Center Dr Ste 500 Austin, TX 78744	Name: Brad Sallee Title: VP, System Technology	Name: Natalie Welp Phone: (512) 479-7732	HQ0860-21-C-7120	Miniature Long Range LADAR	12/20/2022	Systems & Processes Engineering Corporation (SPEC) proposes a flight	Miniature LADAR, Inverse Synthetic Aperture LADAR,

II	Technology Service Corporation	251 18th Street S Suite 705 Arlington, VA	Name: Jeffery Philson Title: Principal	Name: Uri Bernstein Phone: (310) 754-4211	HQ0860-21-C-7121	Advanced Hierarchical Temporal Memory	12/20/2022	An evolving set of missile threats will challenge Integrated Air	Artificial Intelligence, Integrated Air and Missile Defense,
II	ExOne Company, The SBIR.gov	127 Industry Blvd. North Huntingdon, PA 15642	Kyle.Myers@exone.com	Name: Jesse Blacker Phone: (740) 695-0397	HQ0860-21-C-7122	Additive Manufacturing of TZM Refractory	1/10/2023	ExOne successfully demonstrated the feasibility of using	Refractory, high temperature, structural, thermal protection,
II	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Chuck Hannon Title: Principal	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-21-C-7123	Vertical Cold-Launch System	3/4/2023	Triton Systems will demonstrate an innovative method for	vertical launch system, VLS, missile, cold launch, electromagnetic, ballistic
II	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Steve Schoenholz Title: Principal	Name: Collette E Jolliffe Phone: (978) 250-	HQ0860-21-C-7124	Lightweight Fins for Enhanced Maneuverability	2/24/2023	Triton Systems and our team proposes to continue development a	Hypersonic, Fin, Lightweight, Agile, Actuation Systems
II	Vadum, Inc. SBIR.gov	601 Hutton St STE 109 Raleigh, NC 27606	Name: Todd Nichols Title: Principal Engineer	Name: Gary Edge Phone: (919) 341-8241	HQ0860-21-C-7125	Missile Aft Antenna with Extended	3/11/2023	Vadum will design and prototype a compact dual-band Missile Aft	Antenna, missile, microstrip, cavity, polarization, bandwidth
II	CFD Research Corporation SBIR.gov	701 McMillian Way NW Suite D Huntsville, AL	Name: Vernon Cole Title: Technical Fellow	Name: Tanu Singhal Phone: (256) 726-4800	HQ0860-21-C-7126	Non-Toxic Supercapacitors Based on Plant-	1/9/2023	Modern and near-future weapon systems, including hyper-sonics,	GPU, payload computer, edge computer, edge computing, GPGPU,
II	Cubic Aerospace, LLC SBIR.gov	12110 Sunset Hills Road Suite C-4 Reston, VA 20190	Name: George Schmitt Title: Lead Digital	Name: Abigail Davidson Phone: (917) 748-	HQ0860-21-C-7128	Radiation-Hardened Machine Vision	3/29/2023	Electrostatic double layer capacitors (aka, supercapacitors) provide	Plant-derived carbon, supercapacitors, non-toxic, electrolyte
II	EMAG TECHNOLOGIES, INC.	775 Technology Drive, Suite 300 Ann Arbor, MI	Name: Michael Gerulat Phone: (256) 783-	Name: Michael Gerulat Phone: (256) 783-	HQ0860-21-C-7129	Continuous communications through plasma	3/23/2023	Propose to investigate and develop, build and test an innovative	Hypersonic Flight, Plasma, Harsh Environment,
II	CONTROL VISION INC SBIR.gov	6825 East Outlook Drive Tucson, AZ 85756	tristan.vanhoorebek@controlvisioninc.com	Name: Daniel Crawford Phone: (208) 523-	HQ0860-21-C-7130	Low SWaP Sensor	4/4/2023	CVI will design and fly a novel demonstration payload for low earth	low SWAP sensor, small satellite, low earth orbit, infrared detectors
II	Systema Technologies, Inc. SBIR.gov	10809 120th Avenue NE Kirkland, WA	Name: Hunter Golden Phone: (425) 487-	Name: Taylor Banks Phone: (425) 487-4020	HQ0860-21-C-7132	System Integrated Approach for Multi Object Payload	5/2/2023	Systema Technologies, Inc. (Systema) will develop innovative	Kill Vehicle, Payload, Deployment, Dispense, Carrier Vehicle

II	Triton Systems, Inc. SBIR.gov	200 TURNPIKE ROAD CHELMSFORD, MA	Name: Yoojeong Kim Title: Principal Investigator	Name: Ms. Collette Jolliffe Phone: (978) 856-	HQ0860-21-C-7152	Enhancement of the Handheld, Repeatable	5/16/2023	This proposed effort will yield a forward conical section of a full-size	Hypersonic Aeroshells, Multi-Layer Metal Insulation, MLMI, TPS,
III	Nou Systems, Inc. SBIR.gov	7047 Old Madison Pike, Suite 305 Huntsville, AL	Name: Jennifer Steinhauser Title: Engineer	Name: Dr. J. Brent Romine Phone: (256) 327-	HQ0860-21-D-7201	A Streamlined Scenario Integration			
II	Taylor & Lego Holdings, LLC / Rapid	34655 State Road 70 E. Myakka City, FL -	Name: Alan Taylor Title: President Phone: (941) 322-	Name: Alan Taylor Phone: (941) 322-6647	N00014-17-C-1036	Affordable Reinforced Polymer	1/10/2020	The purpose of this program is to continue development of	
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Julia Dupuis Title: Principal Research Scientist	Name: B. David Green Phone: (978) 689-	N68335-21-C-0078	Compressive Sensing Flash LADAR for	11/15/2022	Physical Sciences, Inc. will develop an underwater mine	
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Dr. Frederick Lauten Phone: (978) 738-	Name: David Green Phone: (978) 738-8146	W31P4Q-16-C-0105	Affordable Engine Flow Path CMC Structures for	9/19/2019	Physical Sciences, Inc. (PSI) proposes to further develop our ultra-high	
II	Physical Sciences Inc. SBIR.gov	20 New England Business Center Andover, MA	Name: Allan Dokhan Title: Area Manager for Armament	Name: B. David Green Phone: (978) 689-	W31P4Q-17-C-0075	The Chemical and Physical Mechanism	8/15/2019	Physical Sciences Inc. proposes to measure the Al-Al2O3 particle	

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