MTAF Round 3 Notice of Intent Submissions

Sector: Environmental

MTAF#	Project Title	Name	County	State	Amount (\$)
	Commercialization Space at the Maine Energy &				
3005	Enterprise Park	Great Works, LLC	Penobscot	ME	2,500,000.00
	AeroEcology Radar Observation System for	Stantec Consulting Services			
3018	Offshore Sites	Inc.	Sagadahoc	ME	500,000.00
	Developing ND1 Commeditor to				
	Developing NP1 Composites to				
	Reduce/Eliminate VOC Emissions in Air Care				
3024	Products	Novia Products, LLC	Cumberland	ME	250,000.00

1. Project Title. Character limitation: 80 including spaces.

Project Title Commercialization Space at the Maine Energy & Enterprise Park

2. Lead Institution

Name Great Works, LLC

Lead Organization Type: Choose One

Profit

Mailing Address 1 265 Main Street

Mailing Address 2 Suite 2
City Old Town
County Penobscot

 State
 ME

 ZIP
 04468

3. Authorized Institutional Representative: Primary contact for the Lead Organization, who may or may not be the same as the Project Director. If the same as the Project Director, enter Project Director in each required box.

Rep. First Name Margaret
Rep. Last Name Daigle

Rep. TitleCity ManagerRep. InstitutionCity of Old TownRep. Telephone207-827-3965

Rep. Email Address pdaigle@old-town.org

Rep. Mailing Address 1 265 Main Street

Rep. City
Suite 2
Rep. City
Suite 2

 Rep. State
 ME

 Rep. ZIP
 04468

4. Project Director: Scientific lead and/or project manager.

Dir. First Name John
Dir. Last Name Holden

Dir. Title Economic Dev Consultant

Dir. Organization Eaton Peabody Consulting Group

Dir. Mailing Address 1 77 Sewall Street

Dir. Mailing Address 2 None given.

Dir. City Augusta

Dir. State ME

Dir. ZIP 04330

Dir. Telephone 207-659-1541

Dir. Email Address jholden@eatonpeabody.com

Dir. Fax None given.

5. Collaborators, if Known: List either individual name and/or institution. If none, enter "None."

Collaborators Zeomatrix University of Maine Target Development Corp

6. Approximate amount of funds requested. Please use numbers only without special characters, such as decimal point and commas. For example: 500000.

Amount (\$) 2500000

7. Technology Sector

Chose One Sector Environmental

8. Scientific Disciplines Involved. Character limitation: 125 including spaces.

Scientific Disciplines Involved

Environmental Testing and Technology, other State targeted sectors

9. Names of two suggested reviewers from outside Maine, who are expert in the area of work with no direct conflicts of interest. Please list names and institutional affiliation. MTI is under no obligation to use these reviewers. If none, enter "None."

Reviewer 1 None
Reviewer 2 None

10. Names and institutional affiliation of potential reviewers from whom to withhold application information. If none, enter "None."

Withhold from None

11. Project Overview, which includes a brief description of proposed project, including use of award funds; scientific rationale of the proposed project; potential economic impact areas; a listing of organizations participating in the project and a brief description of their roles.

Character limitation: 6,000 including spacing

Description Area

The City of Old Town has diligently and meticulously organized, planned, and invested in the exploration of opportunities to develop an innovative business park adjacent to the University of Maine. The business park is envisioned by the City as the ♦Maine Energy and Enterprise Park� (henceforth referred to as �MEEP� or simply �Park�) and offers a unique location for to provide businesses low-cost energy as well as a prime location for businesses being spun off from the research and development taking place at University of Maine. Great Works, LLC is a private corporation created to develop property in the City of Old Town. Great Works LLC, the City, Zeomatrix, University of Maine, and Target Technology Development Corporation are all collaborators in this project. Great Works proposes to use MTAF funds for the construction of a 10,000 square foot building for Zeomatrix while the City will use existing grants and finance the balance of infrastructure for the development of Phase One of MEEP. The City began pre-engineering and planning for the Park in July 2007 and acquired an additional 40 acres that year. DEP permits have been approved. The 33 pre-permitted sites cover approximately 75 acres of land. Great Works and its collaborators are now seeking funds and financing to build what will be Maine s most unique business park focused on commercialization of UM R&D companies. A notable future business expansion from UM and collaborator in this project is Zeomatrix. Zeomatrix engineers and manufactures specialty materials for targeted environmental solutions. Zeomatrix was recently awarded a Phase II Small Business Innovative Research for \$489,645 to further advance its Z-SEP♦ patent pending ceramic filtration technology. The Zeomatrix Z-SEP♦ filtration technology will contribute significant energy savings to the production of alternative fuels from cellulosic biomass. Potential end users of the Z-SEP♦ include biorefineries which convert cellulosic biomass to fuels and chemicals. The Z-SEP® offers the advantage of higher efficiency separations due to its proprietary design and can offer up to a 50% energy savings over traditional distillation. This is significant research and product development and fits the intent and location of MEEP. In addition to Zeomatrix, the City is in talks with two other R&D firms engaged in near-commercialization product development. Furthermore, the Park is sandwiched between Old Town Fuel and Fiber (OTFF) and the UM campus. OTFF is developing new biofuels technologies in conjunction with UM and will host the Forest Bioproducts Research Initiative Center. Plans include for the main arterial of the Park to be a new entry into the UM Campus. Additionally, the second phase of the proposed land fill to gas energy pipeline from Juniper Ridge will provide land fill gas to further lower energy costs at the Park. The proximity to the natural gas line and the new energy technologies being created at OTFF offer the Park a competitive advantage. The potential for low energy costs provides a niche and market focus for high-energy business enterprises to be located at the Park. There is potential for affordable electricity and heat at the Park. The low-cost energy options offer the potential to attract those manufacturing operations that use large amounts of energy. As significant is the location next to UM and low cost energy

that will facilitate the commercialization of other high-tech firms from the University. In short, MEEP will become the premier location for commercialization of R&D activities taken place at UM offering incomparable location, access to ongoing UM collaboration, low cost electricity and other energy costs. This MTAF project will facilitate the City s investment in the necessary infrastructure in the Park and fund the construction of an anchor facility for Zeomatrix and future companies. The City has requested funds from USDA Rural Development that will help fund initial infrastructure development. The City will begin talks and pre-application with US EDA for additional funds and use its economic development funds generated by the Juniper Ridge land fill host agreement to finance the project. We want to emphasize that the MTAF funds will build a facility for Zeomatrix and other future technology companies. But the funds are just as critical to initiate the investment in the Park. The timing of this round of MTAF, Zeomatrix future needs, and the City♦s investments to date is advantageous and perhaps will not happen again. The City will begin its market development of the Park in earnest this summer. With the low-cost energy in the Park there are a variety of opportunities for UM spin-offs and other businesses to generate jobs and income in Old Town and the greater Bangor region. For example, low cost energy may attract data centers to the Park. Data centers are a growth sector and use high levels of energy to maintain a constant and stable (climate controlled) environment. Other high-energy manufacturing sectors also associated with UM may be ideal target sectors. Among those are the forest by-product and composites sectors. There are a wide range of sectors that build or support the renewable energy sector that may be targeted as well. Solar and geothermal technologies, also subjects of research being conducted at UM, may also be worth a focused marketing effort. The City has funds dedicated for the initiation of this project; the engineering is complete; and Maine Department of Environmental Protection and Army Corp permits have been issued. There are businesses eager to expand into the Park and the City will work with them to finance the infrastructure as needed and appropriate. We are requesting \$250,000 MM for the construction of a building to house Zeomatrix and other spin-off firms. The City will provide the required 1-1 matching funds for the first \$1.0MM and 2-1 for the balance.

Please review your submission carefully.

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Submission Metadata

IP 127.0.0.1

Browser Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; .NET CLR 1.1.4322; .NET CLR

2.0.50727; .NET CLR 3.0.04506.30; InfoPath.2; .NET CLR 3.0.04506.648; .NET CLR

3.0.4506.2152; .NET CLR 3.5.30729)

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1. Project Title. Character limitation: 80 including spaces.

Project Title AeroEcology Radar Observation System for Offshore Sites

2. Lead Institution

Name Stantec Consulting Services Inc.

Lead Organization Type: Choose One

Profit

Mailing Address 130 Park DriveMailing Address 2None given.CityTopshamCountySagadahoc

 State
 ME

 ZIP
 04086

3. Authorized Institutional Representative: Primary contact for the Lead Organization, who may or may not be the same as the Project Director. If the same as the Project Director, enter Project Director in each required box.

Rep. First Name George
Rep. Last Name Kendrick
Rep. Title Principal
Rep. Institution Stantec

Rep. Telephone 207-729-1199

Rep. Email Address george.kendrick@stantec.com

Rep. Mailing Address 1 30 Park Drive
Rep. Mailing Address 2 None given.
Rep. City Topsham
Rep. State ME

 Rep. State
 ME

 Rep. ZIP
 04086

4. Project Director: Scientific lead and/or project manager.

Dir. First Name Steve
Dir. Last Name Pelletier

Dir. Title Principal Scientist

Dir. Organization Stantec

Dir. Mailing Address 1 30 Park Drive

Dir. Mailing Address 2 None given.

Dir. City Topsham

Dir. State ME

Dir. ZIP 04086

Dir. Telephone 207-729-1199

Dir. Email Address steve.pelletier@stantec.com

Dir. Fax 207-729-2715

5. Collaborators, if Known: List either individual name and/or institution. If none, enter "None."

Collaborators National Park Service, US Coast Guard, Maine Dept. of Inland Fisheries & Wildlife, Gulf of

Maine Ocean Observing System (GoMOOS), Acadia National Park, Gulf of Maine Research

Institute, and Maine Coast Heritage Trust.

6. Approximate amount of funds requested. Please use numbers only without special characters, such as decimal point and commas. For example: 500000."

Amount (\$) 500000

7. Technology Sector

Chose One Sector Environmental

8. Scientific Disciplines Involved. Character limitation: 125 including spaces.

Scientific Disciplines Involved

aeroecology, marine ecology, wildlife biology, radar ornithology

9. Names of two suggested reviewers from outside Maine, who are expert in the area of work with no direct conflicts of interest. Please list names and institutional affiliation. MTI is under no obligation to use these reviewers. If none, enter "None."

Reviewer 1 Dr. Philip Taylor, Acadia University

Reviewer 2 None

10. Names and institutional affiliation of potential reviewers from whom to withhold application information. If none, enter "None."

Withhold from WITHHELD BY MTI

11. Project Overview, which includes a brief description of proposed project, including use of award funds; scientific rationale of the proposed project; potential economic impact areas; a listing of organizations participating in the project and a brief description of their roles.

Character limitation: 6,000 including spacing

Description Area

With the recent approval of the Cape Wind offshore project in Massachusetts, and ongoing efforts to develop wind projects off the coast of Maine, we foresee an expanding market for firms able to collect information in the offshore environment for proposed wind farms. Indeed, in announcing his approval of Cape Wind, Interior Secretary Salazar recently said This will be the first of many projects up and down the Atlantic Coast." Offshore wind development requires an evaluation of potential risks to wildlife, particularly with regard to displacement from habitat use, collision risk, and possible effects on bird and bat populations. Although significant data has been gathered for terrestrial wind farms, recent studies for proposed offshore Atlantic wind farms have revealed a dearth of information on the bats and birds in the offshore environment. Despite requirements to address agency and public concerns regarding biological resources, methods and equipment needed to collect such aeroecological data in the deepwater offshore environment still remain relatively untested. This presents an opportunity for a firm with the right experience and technical capabilities. To capture a portion of this important emerging market, Stantec is seeking funding to acquire three advanced aeroecological radar detection systems, which will allow us to develop a professional services program to sell to U.S. offshore energy clients in New England and beyond. We believe that such a service will provide opportunities for Stantec to expand its work for wind developers in Maine and along the entire East coast, enabling us to increase revenues and add staff. Stantec is one of the most respected firms in North America providing environmental services to wind projects. With over 10,000 employees and 130 offices, Stantec is a top-ranked engineering and environmental firm listed on both the Toronto and New York Stock Exchanges. We have conducted environmental work on over 100 wind farms in the U.S. to date, and have developed a particularly strong reputation in the area of bird and bat studies for terrestrial wind projects. Stantec has already been involved in the offshore wind market as well, conducting a landmark study evaluating avian impacts for the Cape Wind project. To further our position in the offshore market, in 2009 Stantec designed and conducted a self-funded pilot study to test a regional deployment of prototype equipment and to evaluate the presence and movements of bats and birds during fall migration in the Gulf of Maine. These studies were conducted in collaboration with a number of state and federal agencies and NGO representatives. The 2009 pilot study was designed to evaluate systems and methods for expanding regional datasets and assess the viability and effectiveness of evolving equipment and techniques. Prototype equipment was deployed at selected island and peninsula sites up to 20 miles offshore, along a 150-mile transect. This study represented"

the first attempt to evaluate systems and methods for offshore aeroecology remote sensing surveys in Maine. Stantec recently submitted a grant proposal to the Minerals Management Service for an expanded survey program in 2010-2011, to enable us to access additional sites with more staff, using our existing equipment. That grant program did not, unfortunately, include the acquisition of new, more advanced equipment. We are now proposing to further develop our services by acquiring and utilizing advanced radar system components available from Accipiter Radar Technology Inc. (ARTI). Accipiter vaian radars achieve outstanding detection and tracking performance, and are capable of detecting small targets at long distances, analyzing complex radar signatures amid ocean wave clutter, and will also allow us to integrate marine radar hardware already owned by Stantec with ARTI's sophisticated Accipiter digital radar processors. The Accipter systems also provide the means to monitor and control radar systems remotely, reducing the need for staff to travel to the offshore radar sites except for hardware maintenance. Remote radar control is a key element for managing costs and ensuring staff safety in the offshore environment. Accipiter avian radar systems are currently in use at numerous U.S. Navy, Marine Corps and Air Force airfields and at major commercial airports such as Seattle-Tacoma International Airport, Chicago's O'Hare, and New York's JFK. We are proposing to purchase and test three Accipiter avian radar systems configured for use in the offshore marine environment, with combination solar/propane generator power sources and remote data access modules. We currently anticipate acquiring three Accipiter AR Observer systems, which will include a Radar Sensor/Transceiver (RST), Digital Radar Processor (DRP), TrackViewer Workstation (TVW), Radar Remote Controller (RRC), and an Automated Radar Scheduler (ARS). Depending on funding levels and final system costs, we anticipate also including a Radar Data Server (RDS), Fusion Engine (RFE), and possibly a Radar Data Manager (RDM), to handle integration of data from multiple systems. The estimated price of the three AR Observer systems is \$500,000. Project collaborators are expected to include each of the previous 2009 pilot study participants, with several additions. Primary collaborators include U.S. Fish & Wildlife Service and Maine Dept. of Inland Fisheries & Wildlife, who will provide assistance to the team in study design, equipment placement, logistical coordination, and support in data interpretation. Other collaborators will include the National Park Service, US Coast Guard, Gulf of Maine Ocean Observing System (GoMOOS), Acadia National Park, Gulf of Maine Research Institute, and Maine Coast Heritage Trust, American Lighthouse Foundation, and Friends of Sequin Island, each of whom will be providing access, facilities, or logistical support to the project.

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Submission Metadata

IP 127.0.0.1

Browser Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; Tablet PC 1.7; .NET CLR

1.0.3705; .NET CLR 1.1.4322; InfoPath.2; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;

.NET CLR 3.5.30729)"

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1. Project Title. Character limitation: 80 including spaces.

Project Title Developing NP1 Composites to Reduce/Eliminate VOC Emissions in Air Care Products

2. Lead Institution

Name Novia Products, LLC

Lead Organization Type: Choose One

Profit

Mailing Address 1 100 Middle Street

Mailing Address 2 6th Flr West Tower

City Portland
County Cumberland

 State
 ME

 ZIP
 04101

3. Authorized Institutional Representative: Primary contact for the Lead Organization, who may or may not be the same as the Project Director. If the same as the Project Director, enter Project Director in each required box.

Rep. First Name Fred
Rep. Last Name Lipp

Rep. TitleShareholderRep. InstitutionBernstein ShurRep. Telephone(207) 228-7150

Rep. Email Address flipp@bernsteinshur.com

Rep. Mailing Address 1 100 Middle Street

Rep. Mailing Address 2 None given.

Rep. City Portland

Rep. State ME

Rep. ZIP 04101

4. Project Director: Scientific lead and/or project manager.

Dir. First Name William

Dir. Last Name Webster

Dir. Title CFO

Dir. OrganizationNovia Products, LLCDir. Mailing Address 1100 Middle StreetDir. Mailing Address 26th Flr West Tower

 Dir. City
 Portland

 Dir. State
 ME

 Dir. ZIP
 04101

Dir. Telephone (207) 730-0659

Dir. Email Address wwebster610@gmail.com

Dir. Fax (207) 774-1127

5. Collaborators, if Known: List either individual name and/or institution. If none, enter "None."

Collaborators The Lebermuth Company (www.lebermuth.com) Rob Brown, President Jim Fuchs, Chief

Perfumer Brett Dumph, Senior Account Executive

6. Approximate amount of funds requested. Please use numbers only without special characters, such as decimal point and commas. For example: 500000.

Amount (\$) 250000"

7. Technology Sector

Chose One Sector Environmental

8. Scientific Disciplines Involved. Character limitation: 125 including spaces.

Scientific Disciplines Involved

Vapor pressure extraction of slightly polar molecules for composite hydrophilic polyurethane to limit VOC release in scenting

9. Names of two suggested reviewers from outside Maine, who are expert in the area of work with no direct conflicts of interest. Please list names and institutional affiliation. MTI is under no obligation to use these reviewers. If none, enter "None."

Reviewer 1 Professor PT Vasudevan UNH http://www.unh.edu/chemical-engineering/ptv.html

vasu@cisunix.unh.edu

Reviewer 2 Walter Maguire Madison Polymeric, Branford CT www.madpoly.com

10. Names and institutional affiliation of potential reviewers from whom to withhold application information. If none, enter "None."

Withhold from None.

11. Project Overview, which includes a brief description of proposed project, including use of award funds; scientific rationale of the proposed project; potential economic impact areas; a listing of organizations participating in the project and a brief description of their roles.

Character limitation: 6,000 including spacing

Description Area

Novia Products LLC is an Air Care company based in Maine holding the exclusive worldwide license to commercialize scent related applications of NP1, a composite hydrophilic polyurethane (HPUR) foam. Air care is a global \$7 billion industry encompassing an array of consumer and commercial products from plug in air fresheners to commercial and industrial scent diffusers and odor relief devices. The Air Care industry currently faces growing regulatory pressures because existing scent diffusion technology depends on formulations and methods that release volatile organic compounds (VOCs) as part of the scenting process. (Steinemann AC, Fragranced consumer products and undisclosed ingredients, Environ Impact Asses Rev (2008), doi: 10.1016/j.eiar.2008.5.002). VOCs as a category may contain carcinogens and are known to contribute to disease syndromes such as asthma, lung disease, central nervous system damage and other chronic ailments. Regulators, most notably the California Air Resources Board, are setting and enforcing standards to limit VOC release in consumer and industrial scenting products. The fluids used in current scent diffusion technology are a principal source of VOC compounds. In addition methods used to activate these fluids such as heat and propellants can further exacerbate the release of VOCs. NP1 diffuses scent in a dry air format (either passively or through forced air delivery) allowing NP1 devices to avoid the emission of fluid, the heating of such fluids, and the use of propellants. The science of NP1 is particularly useful in scent related activities because HPUR has an affinity for slightly polar molecules, a class that includes the essential oils used as a basis of many scents. In addition the diffusion of scents requires manipulation of the laws of vapor pressure and extraction particularly in passive devices. Novia can design and manufacture NP1 to control pressure drops that are necessary for diffusion in various venues. Additionally, longevity of the scent diffusion process and the intensity of the released scents must take into account the solvents used in scent formulation. The chemistry of NP1 permits use of solvents without VOCs or in certain cases solvents with very low VOC profiles. These characteristics taken together should allow NP1 to serve as a scent carrying and scent releasing medium in the new products designed to meet stringent VOC release standards. While the application of NP1 to the field of environmentally friendly scent diffusion is novel, HPUR itself is a proven technology. This material in its most usual form is principally used in wound dressings because of its ability to absorb exudates without harming skin. The composition of NP1 allows Novia to engineer and manufacture precision variants to optimize scent diffusion across a range of applications, yet the wider use of HPUR means that manufacturing processes and equipment are established and available. Novia s license includes the right to manufacture NP1 for scent related uses. Novia has located existing equipment that can produce NP1 and"

intends to purchase and relocate this equipment from Massachusetts to a manufacturing site in Maine. Doing so will allow Novia to fulfill two orders secured on the basis of scent diffuser prototypes already created by the company and presented to a leading national manufacture of essential oils used in aromatherapy and a New England based travel organization affiliated with national travel organizations. Novia would use an MTAF Award to establish and run the Maine manufacturing operations in support of these existing orders and in the continued marketing of its existing scent diffusion technologies. Control of the manufacturing will also allow quicker expansion of the product fields created by the NP1 technology. All prototyping and marketing activities undertaken by Novia to date have been funded by the sweat equity and financial support of Novia s founders. Novia has qualified for the Maine Seed Capital Tax Credit and intends to raise capital from Maine angel investors to match the potential MTAF Award. These combined funds will allow Novia to continue marketing and manufacturing its existing diffusion technology while also performing market research and engineering research leading to broader scent diffusion applications of NP1. Novia has already achieved a major milestone in such broader efforts through a strategic collaboration with The Lebermuth Company. Lebermuth founded in 1908 is a private company located in Indiana that supplies essential oils, fragrances and flavors to companies in the Air Care, food and consumer products industries. They are well known for their technical expertise and customer support services. Based on their evaluation of NP1 s potential to address the VOC problems arising in the scent industry, Lebermuth has committed to providing laboratory support, scent formulation support and assistance with entries to customers who would benefit from NP1 s potential applications. They have expressed the view that NP1 may have an important innovative impact on scent delivery thinking and design. NP1 has the potential to put Maine-based Novia at the forefront of addressing environmental hazards in the massive Air Care industry. In the process Novia will create Maine based manufacturing and professional jobs and offer tax advantaged investment opportunities to Maine citizens. An MTAF award would greatly facilitate these efforts. Thank you for your time and consideration.

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1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; MDDR; .NET CLR 3.0.04506.648;

.NET CLR 3.5.21022; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729; InfoPath.2)"