

Addressing DTRA, DNDO and Related Topics of Interest

The following table describes what can be delivered within the current time frame (beginning July 10, 2008 or thereafter) under terms of an employment/consulting contract. These are examples and do not preclude other variations.

The objective in producing this table is to begin a paid-for-services contract which can be corp-to-corp or on an individual basis with options for bringing in additional resources including people as projects develop.

The central person able to provide and manage the type of services and tasks described here is uniquely Martin Dudziak, martin@fortepan.com, 804-740-0342, 202-415-7295. Other personnel can be provided to manage small to very large projects, and there is an ability to provide services on more than one of the following tasks in parallel.

The aim here is to start with at least one seed contract which can then grow into a larger and more productive relationship.

Codes:

Prior Specific Work

- i : Hands-on technical experience, in the lab/field, with instruments and/or weapon systems (D = defensive, O = offensive)
- ii : Analysis
- iii : Design
- iv : Foreign technology evaluation, device assessment, personnel and institutional relations
- v : Writing, presenting, and interacting within government/decision-making context

Distinctive Expertise

- i : Extended timespan of involvement in the area/topic for more than five years
- ii : Relevant Publications and presentations
- iii : Relevant Intellectual Property, patents, patentables
- iv : Specific foreign-based technical understanding coupled with personal familiarity and accessibility
- v : SpecOps/terrorist psychology modeling abilities

Category / Subcat / Topic	Objectives / Outcomes	Values / Customers	Prior Specific Work					Distinctive Expertise						
			i	ii	iii	iv	v	i	ii	iii	iv	v		
Critical Infrastructure Prot.														
Vulnerability Assessments	(a) Evaluate, critique, assess other assessments, estimates, risks, defenses, countermeasures; (b) Model and plan intentional and natural attacks and breakdowns; (c) Develop fault-tolerant and fail-safe measures; (d) Design fieldable prototypes and test plans for deployable systems (I) Analytical reports and plans; (II) Technical specs and designs; (III) Fieldable prototypes; (IV) Deliverable (2008-2009) solutions													
Food supply/dist/warehousing	a, b, c, d Focus on PRED, bioweapon and natural bioagents/vectors I, II, III, IV	Protection of public food supply; Fed/State, and private sector (corporations)	D	x	x	x					x	x	x	x
Electricity power grid	a, b, d Focus on disruptions affecting critical public services I	Reliability of power supply; Fed/State, hospitals, corps	D	x	x						x			x
Petrochem production and distribution network	a, b, c, d Focus on specific plant and	Safety of plants and inhabited residential	D O	x	x			x			x	x	x	x

	pipeline attacks I, II, III, IV	areas; Fed/State, petrochem producers		
Mass public transit	a, b, d Focus on coordinated underground attacks I, II, III	Reliability and safety of mass transit; Fed/State/Local	D x x x x O	x x x x x
Water supply	a, b, d Focus on disruption at critical times/places I, II, III, IV	Reliability and safety of drinking water supply; Fed/State/Local	D x x O	x x
Internet Cyberwarfare	a, b, c, d Focus on non-standard asymmetric anomaly and intrusion detection I, II, III	Reliability of internet comms and critical networks; Fed/State/consumers	D x x x O	x x x x x
Category / Subcat / Topic	Objectives / Outcomes	Values / Customers	Prior Specific Work	Distinctive Expertise
			i ii iii iv v	i ii iii iv v
Design and Development	Refer also to above list			
Nomad Eyes	tuning and adapting to the specific contract interests	Public safety including for individuals, not only agencies	D x x x x O	x x x x x
Shumeru (Z-World)	redesign as a tool for both D and O purposes	Better tools to use for defensive and offensive ops	x x x x	x
KERBEROS	investigate existing data havens; develop as a “Venus Fly Trap” (VFP)	Better tools to use for defensive and offensive ops	x x x x	x x x
Futures Gateway	model for VFP purposes	Better tools to use for defensive and	x x x x x	x x x x

		offensive ops		
EcOasis	model for VFP purposes	Better tools to use for defensive and offensive ops	x x x x x	x x
IRM and related I ³ maths and algorithms	design and implement into D or O tools	Better tools to use for defensive and offensive ops	x x x x	x x x
E-Fusion	apply for defensive sustainability strategies	Better tools to use for sustainable energy maintenance	x x x x	x x x
Category / Subcat / Topic	Objectives / Outcomes	Values / Customers	Prior Specific Work	Distinctive Expertise
			i ii iii iv v	i ii iii iv v
Nuclear Weapons Design and Effects				
Design a better compact bomb for targeted blast effects and radiation dispersion	More effective and compact nuclear explosive device; Improved understanding for developing humint and elint countermeasures	Improved portable tactical nuclear weapon	x x x	x x
Incorporate TERANOD concepts to improve weapon efficiency and reduce size (foundations in soliton beam work)	More effective and compact nuclear explosive device; Improved understanding for developing humint and elint countermeasures	Potentially a truly disruptive, breakthrough design for tactical nuclear weapons	x x x x	x x x x
Design and model the use of a variety of PRED devices	Improved countermeasures to prevent assembly, distribution and utilization of mass-effect PREDs	Better ability to respond to and to prevent the most practical terrorist radiation attack	x x x x x	x x x
Design and model the use of a variety of RD (dirty bomb) devices	Improved countermeasures to prevent assembly, distribution and utilization of mass-effect	Better ability to respond and to prevent the 2 nd most	x x x x x	x x x

	PREDs	practical terrorist radiation attack		
Develop improved rad/nuke countermeasure and response technologies	Focus: surface particle capture and removal, sensing, population control and routing		x x x x x	x x
Category / Subcat / Topic	Objectives / Outcomes	Values / Customers	Prior Specific Work	Distinctive Expertise
			i ii iii iv v	i ii iii iv v
DNDO				
Current US/Allied rad/nuclear sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding of what is the best, good, and least desirable of options	x x x x x	x x x
Current foreign rad/nuclear sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding...	x x x x x	x x x x x
Other	See above list (previous category)			
Category / Subcat / Topic	Objectives / Outcomes	Values / Customers	Prior Specific Work	Distinctive Expertise
			i ii iii iv v	i ii iii iv v
JSTO Chem-Bio				
Current US/allied chem sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding...	x x x x x	x x x
Current US/allied bio sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding...	x x x x x	x x
Current foreign chem sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding...	x x x x x	x x x x

Current foreign bio sensor technologies and products	Analytical findings, recommended designs, field prototypes	Better and more practical understanding...	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
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Other Current Opps				
Complete translation and editing of major 3-vol. Russian study (@ 1,400 pages total) on chem and bio weapons programs, mostly all classified and formerly secret archives	Publication in English with options to contour the material to more than one type of audience	New information not heretofore available or in cogent form	I am working on this now, unfunded, and the work is at a standstill	Direct relationship with author and others
Re-establish presence in the right communities, right places, or some new ones	There are two paths to achieving objectives. One has a lot of certain types of analysts sitting behind desks in CONUS and the other puts an expert who is accepted in different communities into those communities.	Obvious, I think	Enough	Enough