

**TECHNICAL INSTRUCTION (NAVSEA TEMPLATE)**

Ref: (a) NAVSEA 5252.242-9115 (TECHNICAL INSTRUCTIONS)  
 Enclosure (if applicable): [1]

This Technical Instruction (TI) is issued pursuant to reference (a). The TI will be effective upon incorporation into a modification. This TI is within the present scope of the contract/order and it does not change the statement of work or other terms and conditions. Nothing herein should be construed as amending the subject contract/order or as changing any contractual requirements. If the contractor believes that compliance with anything herein would constitute a change in the requirements of the subject contract/order, the contractor should not accept the TI and notify the Procuring Contracting Officer (PCO), in writing, within ten (10) working days, specify the reason(s) for such belief, and take no further action. A copy should also be sent to the COR.

**Note: The contractor shall inform the COR, in writing, when 75% of the costs allotted to this TI have been expended. Expenditures for this TI shall not exceed the allotted amount. This TI is contingent upon the availability of funds and performance shall not commence until funding has been obligated on the contract/order.**

TI No./Revision No.	TI #20			
TI Revision Issue Date (if applicable)				
Original TI Issue Date	7-29-2014			
Purpose of Revision (if applicable)				
Contract/Task Order No.	N00178-07-D-4963-0002			
Government Agency/Activity	NSWC Dahlgren Division			
Sponsoring Office	Organization		Code	
	Directed Energy Division.		Q20	
Program/Technical Office	Name	Code	Telephone	Email Address
	Stuart Shoppell	████	████████████████	████████████████████
Contracting Officer's Representative (COR)	Name	Code	Telephone	Email Address
	Arline Parker	████	████████████████	████████████████████
Procuring Contracting Officer (PCO)	Name	Code	Telephone	Email Address
	Raj Soni	████	████████████████	████████████████████
Contractor	Applied Technology, Inc.			
Contractor POC	Name	Code	Telephone	Email Address
	Bill Taczak		540-663-0050	btaczak@appliedti.com
Severability	Severable <input checked="" type="checkbox"/> Non-Severable <input type="checkbox"/>			
Special Skills Required	Software Engineering, Controls Engineering, Optical and Sensor Systems Design			
Applicable SOW/PBWS Paragraph Number(s)	C.2.2.1, C.2.2.2, C.2.2.3, C.2.4.1, C.2.5.1, C.2.5.2, C.2.5.3, C.2.5.5, C.2.5.6, C.2.5.7, C.2.6.1, C.2.6.2, C.2.6.3			
TI Title	QRC Installation and Deployment			
TI Description	TI #20 Title: SSL-TM Program and System Development Engineering Support			
	TI Description: Provide programmatic and engineering design, software and hardware developments, testing and support for the Solid State Laser Technology Maturation (SSL-TM) Program.  For this effort, the contractor will provide program and financial analysis, documentation, and management support. These efforts will include the generation of Work Breakdown Structures (WBS), program plans and schedules, statements of work, and additional program documents, as required.			

The contractor will also provide various staffing as required to support the technical requirements of each program. The staffing will be supplied by the contractor as technical requirements are identified and funding is authorized.

**TI Subtask Descriptions**

Solid State Laser-Technology Maturation (SSL-TM) Program: The contractor will provide system engineering, technical, and programmatic support for the design and development of an operational laser weapon system suitable for the at-sea environment aboard a US Naval combatant. Specific functional task areas that shall be addressed are:


- (1) Programmatic: The contractor will support technical and programmatic meetings, conferences, and workshops. The preparation and distribution of briefing materials will be required. The contractor will be required to support telephone and video conferencing and to prepare meeting minutes, tracking of action items as required. The contractor shall also develop, assess, and/or develop reports associated with schedules and budgets for both government and prime contractors' efforts.
- (2) System Engineering: The contractor will support system engineering efforts (including Model-based Systems Engineering) associated with HW/SW development including developing and/or refining requirements, detailed specifications, interfaces (including human-machine interfaces), development and integration activities, documentation, schedule developments, risk mitigation plans and actions, and technical trade studies.
- (3) System Development, Integration and Test: The contractor shall develop, modify, and/or integrate sensor and other contractor-procured and/or GFE systems, subsystems, and software to support system development and risk reduction efforts. The contractor shall also participate in laboratory, field, and operational tests as required to validate performance.

<b>Applicable Documents</b> If none, insert N/A	N/A																				
<b>Government Furnished Information (GFI), Government Furnished Equipment (GFE), Government Furnished Material (GFM); Government Furnished Facilities (GFF)</b>  If none, insert N/A	<b>GFI: Information on the current LaWS testbed operation</b>  <b>GFE: Existing and being developed LaWS system and related components, HW and SW</b>  <b>GFM: N/A</b>  <b>GFF: HEL Development area, High bay facilities at Bldg 213, NSWCCD Dahlgren VA</b>  Other: N/A																				
<b>Duty Location</b>	N/A																				
<b>Temporary Duty/ Travel Requirements</b>  If none, insert N/A	Travel Authorization (TA) requests shall be submitted to and/or authorized by the Contracting Officer's Representative (COR).  <b>CONUS</b> <table border="1" data-bbox="479 1480 1393 1549"> <thead> <tr> <th>Trips</th> <th>People</th> <th>Duration</th> <th>From</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <b>OCONUS</b> <table border="1" data-bbox="479 1606 1393 1667"> <thead> <tr> <th>Trips</th> <th>People</th> <th>Duration</th> <th>From</th> <th>Destination</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Trips	People	Duration	From	Destination						Trips	People	Duration	From	Destination					
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<b>Funding Information</b> (e.g., CLIN, SLIN, ACRN)	<p style="text-align: center;"><b>SEE SECTION G FOR FUNDING INFORMATION</b></p> <p style="text-align: center;"><b>LABOR</b></p> <table border="1" data-bbox="479 1787 1446 1881"> <thead> <tr> <th>Funding Identifier</th> <th>Project/Program Name</th> <th>Appropriation FY</th> <th>Appropriation Type</th> <th>Funded Amount</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Funding Identifier	Project/Program Name	Appropriation FY	Appropriation Type	Funded Amount															
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Contracting Officer's Representative

**Acknowledgement of receipt by Contractor:**

  
(Signature)  
Authorized Representative of Contractor

WILLIAM J. TACZAK JR.  
(print name)

28 JUL 14  
(date)

**NOTE - ALL TECHNICAL INSTRUCTIONS MUST BE CONCURRED WITH BY THE PCO PRIOR TO RELEASE.**