TECHNICAL DATA SUMMARY SHEET

NOTE:

This form is for bid evaluation and will not be a part of the Subcontract.

Please complete the following table with responses for the NERSC-10 system, consistent with your proposal and quantified in appropriate units. If your proposal is a heterogeneous system, fill in this table for each processor type.

If any category/item is not applicable to your proposal, denote with N/A.

If any category requires multiple instances, expand the table appropriately.

If your architecture includes a major subsection not listed, please expand the table appropriately (e.g., hardware or software dedicated to purposes such as workflow acceleration).

Category	Item	NERSC-10	Brief comments	Reference page(s) of proposal
System			Speeds, feeds and capacities are all aggregate	
	Number of computational nodes		For a heterogeneous solution, specify for each compute processor type	
	Memory capacity		Specify memory capacity and memory type for each level of the memory hierarchy as appropriate.	
	Peak FLOP/s		For a heterogeneous solution, specify for each processor type	
	Interconnect bisectional bandwidth		As appropriate for the interconnect topology, show calculation	
	Types and number of nodes per system (e.g., login, computational, service, I/O, visualization)		Expand the table for each node type.	
CPU	Type			
	Function (login, compute, I/O, etc.)			
	Clock speeds (base, turbo, floating-point unit, etc.)			

Category	Item	NERSC-10	Brief comments	Reference page(s) of proposal
	Peak performance (FLOPs)			
	CPUs per node			
	Number of cores per processor			
	Number of threads per core			
	Power Rating			
GPU	Type			
	GPUs per node			
	Peak performance (FLOPs)			
	Memory			
	Memory Bandwidth			
	Power Rating			
Memory	Type		Expand the table for multiple types or levels of memory hierarchy	
	Capacity per processor			
	Capacity per node			
	Peak and sustained data rate (show calculation)			
	Describe any NUMA domains			
Interconnect				
	Technology (custom, InfiniBand, etc.)			
	Topology			
	Number of levels in the network hierarchy			
	Number of “rails”			
	Radix of the switch			
	Number of ports per node			
Storage				
	Total storage capacity			
	Storage system type and filesystem		Fill table for platform storage system and QoS storage system (and tiers, if applicable)	
	System (Tier) Capacity			
	Media/Device type(s)			

Category	Item	NERSC-10	Brief comments	Reference page(s) of proposal
	Network type / bandwidth between compute nodes and storage			
	Endurance or DWPD for non-volatile media			
Software and Tools			For each different software stack (e.g. compute, service, viz, other), provide a summary that addresses these items:	
	Operating System(s)			
	Compiler(s)			
	Resource Manager(s)			
	Batch Scheduler(s)			
	MPI Environment(s)			
	Debugger(s)			
	Performance analysis tool(s)			
Environment	Total footprint – including necessary room for service clearance and air handling			
	Total power – wall plate, peak, nominal, idle			
	Total cooling by air / water – while the system is running at peak (BTUs)			
	Total Number of Cabinets			
Overall Reliability	System Mean Time Between Interrupts (SMTBI)		In hours, offeror estimate	
	Full system equivalent Job Mean Time To Interrupt (JMTTI)		In hours, offeror estimate accounting for both hardware and system software causes	