

Company CEO: _____

Company Name

Product demonstration station officials: _____

Safety

Check here if the company has their PASSED safety inspection card

Companies without their safety inspection PASSED card cannot participate in the product demonstration.

Fuses: ROV systems are allowed one replacement fuse during the product demonstration. In the event that the ROV system blows the second fuse during the demonstration, time will stop, the demonstration run will be over, and no additional points will be earned. Companies should have adequate replacement fuses on hand, MATE will not provide replacements.

Task # 1: OOI: Coastal Pioneer Array (up to 40 points)	Points	
1.1 up to 40 points – Release the multi-function node		
10 points – "trigger" the release of the multi-function node	0	10
10 points – pull a pin to release the failed recovery float to the surface	0	10
5 points – return the failed recovery float to the surface, side of the pool	0	5
15 points – connect a recovery line to the bale on the multi-function node for manual recovery	0	15
Total Task # 1 (out of 40)		Total

Task # 2: SMART Cables for Ocean Observing (up to 50 points)	Points	
2.1 up to 50 points – Deploy a SMART Cable		
5 points each, 10 points total – deploy SMART cable through two waypoints	0	5 10
10 points – place the SMART repeater in the designated location	0	10
5 points – return the ends of the cable to the surface, side of the pool	0	5
up to 20 points – connect the AUV docking station to the SMART cable repeater		
10 points – retrieve the power connector from the AUV docking station	0	10
15 points – install the power connector	0	15
Total Task # 2 (out of 50)		Total

Task # 3: From the Red Sea to Tennessee (up to 100 points)	Points	
3.1 up to 30 points – Probiotics 2		
10 points – place a probiotic irrigation system in the designated area	0	10
10 points – deploy the probiotic sprinkler on the coral head	0	10
10 points – activate the irrigation system	0	10
3.2 up to 20 points – Coral Restoration		
10 points – transplant branching coral	0	10
10 points – transplant brain coral	0	10
3.3 up to 50 points – Determine the location of sturgeon spawning grounds		
10 points – recover an acoustic receiver	0	10
up to 20 points – determine the location of a potential spawning site		
15 points – create a graph of sturgeon locations from the acoustic receiver data	0	15
5 points – determine the potential spawning site	0	5
up to 20 points – characterize the habitat at potential spawning site		
10 points – place an ADCP	0	10
10 points – recover a sediment sample	0	10
Total Task # 3 (out of 100)		
		Total

Task # 4: MATE Floats! 2024 (up to 60 points)	Points	
4.1 up to 60 points – MATE Floats!		
up to 10 points – prior to the competition, building an operational vertical profiling float		
5 points – vertical profiling float	0	5
5 points – includes a temperature sensor	0	5
5 points – deploy the float into the designated area	0	5
15 points – float completes a vertical profile	0	15
up to 20 points – float collects temperature from four points		
5 points – temperature in air within 4 degrees C	0	5
5 points – surface temperature within 4 degrees C	0	5
5 points – mid-water temperature within 4 degrees C	0	5
5 points – bottom temperature within 4 degrees C	0	5
10 points – graph temperature versus depth	0	10
NOTE: If a company does not design and construct a float or the float does not contain a functioning temperature sensor, companies may graph MATE-provided data. The following replaces all temperature measurements and graphing points above.		
10 points – graph temperature versus depth	0	10
Total Task # 4 (out of 60)		
		Total

Penalty Points (deduct 5 points for each infraction)	No. of Infractions		
Safety: Product demonstration officials may deduct points for safety violations. Minor violations are a 5 point penalty. Major violations may be 10 or more points. Product demonstration officials may also disqualify a company for extreme safety violations. Note: An official's decision to disqualify a company due to safety concerns is final. If there is a safety concern, please contact the lead safety inspector or competition coordinator.			
Tether Pulling: Company members cannot pull on the tether to assist in moving or turning the vehicle. Judges should issue a warning for the first infraction and begin deducting points AFTER the first infraction.	a		
Debris: Companies that leave debris (e.g. parts of their ROV, including weights and flotation) in the pool at the end of the product demonstration time, or leave debris that a diver must retrieve will receive penalty points. Product demonstration props are NOT considered debris. A company constructed collection basket is considered debris if it is still in the water, not under control of the ROV, when product demonstration time ends.	b		
Diver Assistance: Any diver assistance (if available) must be requested by the company and will result in a 5 point penalty. The clock does not stop during diver assistance.	c		
Total Penalty Points	(total a + b + c) plus safety violations	Total	
	X 5 =		

TIME BONUS (1 point for every minute and 0.01 point for every second under 15 minutes)						
Duration of Product Demonstration: _____ Minutes under 15 remaining: _____ X 1 point = _____ Seconds remaining: _____ X 0.01 point = _____						Total
Time bonus						

TOTAL PRODUCT DEMONSTRATION SCORE	Grand Total
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Official's initials: _____

Company CEO's initials: _____