EV Challenge STEM Cycle Electrical Inspection

Vehicle # _____ School Name _____

#	Inspection Item	Specification Reference	Circle Yes / No / N/A	
1	Motor is DC	E1.1	Yes	No
2	Motor rated at 750 Watts (1 hp) or less	E1.2	Yes	No
3	All drive components (motor, chain, etc.) guarded or shielded	E1.3	Yes	No
4	Battery has a maximum capacity of 1000 Wh	E2.1	Yes	No
56	Battery rated at no more than 48 Volt nominal (60 Volt maximum under charge)	E2.2	Yes	No
7	Battery not a flooded lead acid	E2.3	Yes	No
8	Battery shall be in a proper enclosure and secured to the vehicle E2.5	E2.4	Yes	No
9	Base of the battery enclosure shall be less than 10 cm (3.9 inches) from the ground	E2.5	Yes	No
10	Documentation of battery specifications and safety provided during technical inspection	E2.6	Yes	No
11	communication devices are prohibited powered from the main traction battery or from a separate power source	E3.1	Yes	No
12	Accelerator mechanism is a spring loaded to return to zero current position when released	E3.2	Yes	No
13	Vehicle has no cruise control	E3.3	Yes	No
14	Controller operable solely by the driver (no remote control allowed) vehicle	E3.4	Yes	No
15	Vehicle is equipped with a clearly labeled mechanical electrical disconnect on a main battery cable	E4.1	Yes	No
16	Disconnect accessible to a belted driver without reaching outside of the vehicle, and accessible from outside the vehicle without reaching inside the vehicle	E4.2	Yes	No

Notes and Explanations for Any "No" Circled Above or Additional Concerns