APPENDIX C – ANNUAL INSPECTION FORM

2023 Racing Season H1

Name/Number: _____ U - _____

Date: _____ / _____ / _____

Inspector: _____

HULL

1. DECK

__A. Check for looseness from frames _____
__B. Check for loose fiberglass _____
__C. Check for cracks _____
__D. Check for loose trim _____

2. BOTTOM

__A. Check for loose fasteners _____
__B. Check for exposed seams _____
__C. Check doublers _____
__D. Check for corrosion _____
__E. Check location and type of drains

3. NON TRIPS

__A. Check fasteners _____
__B. Check for loose fiberglass _____
__C. Check for tightness of seams _____
__D. Check for condition of aluminum _____

4. RUNNERS

__A. Check fasteners
__B. Check condition of aluminum/magnesium _____
__C. Check for tightness of seams _____
__D. Check for loose fiberglass _____
__E. Check for structural integrity of wood _____

5. FRAMES

__A. Check for integrity of all glue joints _____
__B. Check fasteners _____
__C. Check for cracks _____

HORIZONTAL TAIL (WING) ASSEMBLY

1. DECK MOUNTS (UPRIGHT ATTACHMENT POINTS)

__A. Visually check for cracks _____
__B. Check fasteners for tightness _____
__C. Check all glue joints _____

2. HULL/TRANSOM MOUNTS (Diagonal Brace Attachment Points)

__A Check for cracks _____
__B. Check fasteners for tightness _____
__C. Check glue joints _____

3. UPRIGHT

__A. Magnaflux or Zyglo **(must be initialed by crew chief)*** _____
__B. Check for rust _____
__C. Check uniballs _____

4. ADJUSTING RODS

__A. Magnaflux or Zyglo **(must be initialed by crew chief)*** _____
__B. Check for rust _____
__C. Check rod ends _____

5. DIAGONAL BRACES

__A. Magnaflux or Zyglo **(must be initialed by crew chief)*** _____
__B. Check for rust _____
__C. Check rod ends _____

COCKPIT

1. MAIN STRUCTURE

__A. Check for main structure & roll cage to Rulebook standards & minimums _____
__B. Check for loose upholstery, exposed areas that may contact drivers head. _____
__C. Check headrest to Rulebook standards and minimums _____
__D. Check seat adequately attached to boat _____
__E. Check for adequate leg clearance _____
(e.g. can driver pull knees up to chest with steering wheel removed.)
__F. Check seal/release of bottom rescue hatch _____
__G. Check for Plexiglass window in hatch. (Optional) _____
__H. Check for cockpit sealed from engine compartment _____
__I. Check for secondary emergency air supply _____
__J. Check air bottles inspection sticker, location & mounting _____
__K. Check air hose length (10-15 feet) measure from center of steering wheel _____
__L. Check for installation of radio and current license _____

2. CANOPY

__A. Check for proper material (1/2 inch thick hot formed polycarbonate, _____
Lexan cold formed is not acceptable)
__B. Check for securely fastened _____
__C. Check for cracks or breaks _____
__D. If using aircraft canopy, which model _____
__E. Check for opening mechanism, hinge, lift handle, latch per _____
Rule Book standards and minimums
__F. Check for cockpit opening with canopy open to _____
Rule Book standards and minimums
__G. Check driver's head clearance _____

3. UPHOLSTERY/PADDING

__A. Is upholstery securely attached _____
__B. Check for padding covering sharp edges/protrusions _____

4. STEERING WHEEL

__A. Check for rust _____
__B. Check for loose cover _____
__C. Check for sharp edges _____
__D. Check for proper attachment - check splines/taper, keyway, key attaching _____
bolts, lock-tited bolts, collar release mechanism w/in 2" of face of hub

5. FIRE EXTINGUISHERS

__A. Check for handles accessible from inside and outside of cockpit, properly marked as per Rulebook _____

__B. Check for bottles securely mounted _____

__C. Check for cables Pull free and operable. _____

__D. Check for bottle weights _____

__E. Check cockpit system(Halon 1211 not acceptable in cockpit) _____

__F. Verify chemical used in hull/engine and cockpit systems _____

6. MIXTURE CONTROL (Piston Aircraft Engine Only)

__A. Check aft position for off _____

__B. Check for protrusions _____

__C. Check for cable well attached _____

7. THROTTLE

__A. Check for secure attachment _____

__B. Check for smooth and free pedal/cable action _____

__C. Check that spring returns throttle to off position (a minimum of 2 springs required: 1 on pedal, and 1 on carb or fuel control) _____

__D. Check for no toe straps/coverings on pedals _____

__E. Check cable well secured (Quick release ball type not recommended) _____

8. LEFT FOOT BRACE

__A. Check structure, mounting. _____

__B. If left foot pedal operates control surface or other mechanism, check for spring back to "fail safe" position, no toe straps _____

9. DASHBOARD

__A. Check adequate drives leg clearance _____

__B. Padding on underside of dash _____

__C. Check for secure attachment _____

__D. Check for secure sub structure _____

10. SHUT-OFF DEVICES/SYSTEM

__A. Check that systems can be activated from outside cockpit. properly marked as described in Rulebook _____

__B. Check that system activation will ground magnetos (piston engines), and cut electrical power to all systems _____

__C. Turbine engines to have emergency mechanical fuel shut-off device, independent of the fuel control _____

11. MASTER ELECTRICAL SWITCH (MANDATORY)

__A. Check for easy access for driver _____

12. MAGNETO OR ENGINE MASTER SWITCH (PISTON ENGINES)

__A. Check for secure mounting _____

__B. Check for both magnetos grounded when off _____

__C. Check for accessibility from outside of cockpit _____

13. CIRCUIT BREADERS (OPTIONAL. RECOMMENDED)

__A. Examples: Instruments 15 Amp, Fuel pump 20 Amp. Water/Alcohol pump 20 Amp _____

14. SWITCHES

__A. Check for free action _____

__B. Check for secure attachment _____

15. WIRING

__A. Check for corrosion _____

__B. Check for tight wire lugs _____

__C. Check for chafed or cut wires _____

__D. Check for wire bundles tied off _____

16. DRIVER RESTRAINT SYSTEM

__A. Check straps and latch per Rule B.8.v) _____

__B. Check straps for wear or fraying and date stamped _____

__C. Check fever latch for rust, smooth operation _____

__D. Check for adequate attachment to hull _____

ENGINE COMPARTMENT

1. WIRING

__A. Check for corrosion/damage _____

__B. Check for tight wire lugs _____

__C. Check for chafed or cut wires _____

__D. Check for wire bundles tied off _____

__E. Check separate wiring for start fuel solenoid _____

2. PLUMBING

__A. Check for frayed hoses _____

__B. Check for corrosion on ends (pull test) _____

__C. Check for loose fittings and ends _____

__D. Check for hose bundles tied off _____

__E. Check mounting of fuel flow control device _____

3. ENGINE STRINGER/INTERNAL STRUCTURE

__A. Check for secure engine & gearbox attachments, wear or elongating of bolt holes _____

__B. Check for internal structural damage due to heat, oil, impact _____

__C. Check engine bailers/vent system meets Rule Book _____

4. COWLING

__A. Check attachment for removable cowling _____

__B. Check for cracks and breaks in glass _____

__C. Check for strobe light installed _____

STEERING SYSTEM

1. RUDDER BRACKET

__A. Check for removal of all paints & coatings, cleaned, mangnaflux or zyglo (**must be initialed by crew chief**) _____

__B. Check bolt holes for elongation, replace bottom bolts (grade 8-1/2" minimum) _____

__C. Check bearings/bushings for clearance and freedom of movement (recommended replacing bearings with bushings) _____

2. RUDDER BRACKET SUPPORT STRUCTURE

__A. Check for transom well attached to stringers, air traps, bottom _____

__B. Check inner structure ties together the transom, bottom, stringers _____

__C. Check all glue joints intact _____

__D. Check for inserts at all fasteners (honeycomb boats) _____

3. RUDDER

__A. Check rudder has been removed from boat _____

__B. Check all rudders have numbers _____

__C. Check rudder has been magnafluxed (certified with papers) _____

(must be initialed by crew chief)*

__D. Check for minimum thickness at and above waterline _____

__E. Check for filleting at base of post _____

__F. Check for shot peening (recommended) _____

__G. Check retaining nut or cap. _____

Check for new bearhug nut and lock ring. Check all bolts safety wired

__H. Check key way and key fit _____

__I. Check fittings and tubes for cracks _____

__J. Check hoses and fittings for corrosion and fraying _____

4. PITMAN ARM

__A. Check magnaflux or zyglo **(must be initialed by crew chief)*** _____

__B. Check key way and key for fit _____

__C. Check bore for fit on rudder _____

__D. Check/inspect threads _____

5. ROD ENDS

__A. Check zyglo (or new) **(must be initialed by crew chief)*** _____

__B. Check for loose ball _____

__C. Check for retainer washer under bolt head _____

__D. Check for minimum specification type on rod ends (40,000 lbs) _____

__E. Check for NO zerk style grease fittings in rod ends _____

(zerk style grease fittings not allowed)

__F. Check nuts and bolts cotter keyed, or threaded into push rod with jam nut _____

__G. Check thread engagement minimum (1-1/2 X thread diameter) _____

6. PUSH PULL RODS

__A. Check for rust inside and outside of tube _____

__B. Check threads for fit and rust _____

__C. Check magnafluxed or zyglo'd (must be initialed by crew chief)* _____

__D. Check for NO brazed fittings or joints _____

__E. Check for minimum wall thickness : _____

4130 1" O.D. tube - .120" wall, or equivalent

4130 1 1/2" O.D. tube - .063" wall, or equivalent

7. CABLE QUADRANT/SPROCKET (CABLE STEERING)

__A. Check mangafluxed or zyglo'd **(must be initialed by crew chief)*** _____

__B. Check bearings/bushings for free play and wear _____

__C. Check push-pull rod bolt hole for elongation and wear _____

__D. Check cable attachments _____

8. CABLES

__A. Check minimum cable type (aircraft type, 3/16 Diameter, 7 X 19 stainless) _____
__B. Check for fraying, kinks, clearances in hull holes _____
__C. Check ends - swages and clamps _____
__D. Check/verify each cable pull tested (certified with papers) _____
__E. Check/inspect ALL pulleys **(must be initialed by crew chief)*** _____

9. CABLE PULLEYS

__A. Check for excessive wear, cracks, corrosion _____
__B. Check bearings _____
__C. Check fairleads and cable guides _____
__D. Check mounting brackets _____

10. CABLE ADJUSTERS

__A. Check for safety wire per FAA specs AC 43.13-1B pgs 7-43 to 7-48 _____
__B. Check for clearances where pass through frames/stringers _____

11. SKID FIN BRACKET

__A. Check for removal of all paint and coatings, magnaflux or zyglo
(must be initialed by crew chief)* _____
__ B. Check bolt holes for elongation, stress _____

12. SKID FIN BRACKET SUPPORT STRUCTURE

__A. Check for inspection deck hatch above internal support structure. _____
__B. Check for internal structure attached through to engine stringers. _____
__C. Check all glue joints intact _____
__D. Check for inserts at all fasteners (honeycomb boats) _____

13. SKID FIN

__A. Check fin has been removed from boat _____
__B. Check all skid fins have serial numbers _____
__C. Check skid fins have been magnafluxed (certified with papers) _____
__D. Check for minimum thickness at waterline and above _____
__E. Check tie rod attach points for rust, cracks, etc. _____
__F. Check tie rods for rust and cracks, minimum pull strength of 20,000 lbs., two (2) rods minimum. Check magnafluxed or zyglo'd
(must be initialed by crew chief)* _____
__G. Check tie rod ends for rust, loose ball, magnaflux, zyglo or new
(must be initialed by crew chief)* _____
__H. Check for curvature per Rule B.6.c) _____

LIFTING SLING

1. TEST/CERTIFICATION

__A. Check/Inspect components for rust, wear, cracks, etc; _____
nylon for wear, fraying. No aluminum collector rings.
__B. Check/Verify Date of Mfg, rating of each leg (6000 lbs. min.), _____
collector ring to 4 times boat weight (certified with papers)

CONTAINMENT BLANKET (TURBINE POWERED BOATS)

1. DESIGN/MANUFACTURE

__A. Check/inspect design and condition per Rulebook minimums _____
__B. Check for proper location _____
__C. Check inspection date _____

DATA RECORDING SYSTEM

__A. Check recorder location for access and security _____
__B. Check N2 sensor mount pads on gearboxes _____
__C. Check/inspect magnets _____
__D. Check flow meter location and mount _____

HEAD AND NECK RESTRAINT

1. INSPECTION/CONDITION

__A. Check for approved type, general condition _____

HELMET/AIR MASK

__A. Check certification, manufacturer _____
__B. Check air mask, straps, attachment clips _____

RADIOS

1. FCC LICENSE

__A. Verify License _____
__B. Verify Expiration Date _____
__C. List Frequencies: _____

CrewChief: _____ Date: ____ / ____ / _____

Inspector:: _____ Date: ____ / ____ / _____

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Chief Referee: _____ Date: ____ / ____ / _____