CARBON CAPTURE FACILITY INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

Pre-Operational Readiness and Carbon Capture Facility Scope Verification

☐ Yes ☐ No — Inspection area, manufacturer nameplate rating, and scheduled scope for carbon capture facility match the work order

☐ Yes ☐ No — Equipment operational logs, recent service records, and manufacturer documentation are accessible on site

☐ Yes ☐ No — Required area safety perimeter barriers, warning signage, and lockout/tagout isolation are established

☐ Yes ☐ No — Ambient environmental lighting, ventilation, and physical clearances around carbon capture facility support safe examination

Carbon Capture Facility Structural Framing, Enclosures, and Mounting Hardware

☐ Yes ☐ No — Main external housing, structural frame, and chassis of carbon capture facility show zero cracks, gouges, or deformation

☐ Yes ☐ No — Foundation anchor bolts, support brackets, and heavy mounting hardware are torqued tight with zero loose fasteners

☐ Yes ☐ No — Protective paint coatings, anodized layers, and corrosion-resistant barriers are free from severe oxidation or pitting

☐ Yes ☐ No — Structural vibration dampeners, isolation bushings, and bracing members remain securely seated in place

Mechanical Assemblies, Connection Joints, and Operational Linkages

☐ Yes ☐ No — Primary operating mechanisms, drive linkages, and moving assemblies actuate smoothly without abnormal binding

☐ Yes ☐ No — Fluid conduits, high-pressure lines, and connection fittings show zero fluid leaks, weeping, or gasket breakdown

☐ Yes ☐ No — Bearings, pivot bushings, and articulated joints demonstrate proper lubrication with zero excessive mechanical play

☐ Yes ☐ No — Operator control handles, adjustment levers, and manual valves articulate with positive engagement and smooth travel

Electrical Controls, Enclosures, and System Instrumentation

☐ Yes ☐ No — Electrical terminal junction boxes, control conduits, and wire harnesses show no chafing, fraying, or thermal scorching

☐ Yes ☐ No — System operational gauges, digital status displays, and telemetry readouts indicate normal baseline operating parameters

☐ Yes ☐ No — Grounding conductors and equipotential bonding jumpers are securely clamped to structural grounding points

☐ Yes ☐ No — Operator switches, indicator lamps, and control panel pushbuttons respond immediately to manual inputs

Emergency Safeguards, Safety Interlocks, and Final Operational Clearance

☐ Yes ☐ No — Emergency shutdown actuators and safety interlocks halt operation immediately upon manual trip actuation

☐ Yes ☐ No — Safety warning decals, danger signs, and operational rating plates remain clean, fully affixed, and legible

☐ Yes ☐ No — All temporary diagnostic instruments, calibration probes, and lockout tags have been reconciled and removed

☐ Yes ☐ No — Final operating condition of carbon capture facility is certified safe, fully compliant, and cleared for operational release

FINAL NOTES

Inspector Comments:

_____

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Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

☐ **I confirm this inspection was completed accurately**

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