

REFINERY SAFETY INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

Process Equipment Safety

Yes No — Pressure vessels, exchangers, and reactors free from visible defects

Yes No — Valves, pumps, and compressors operate without abnormal noise or vibration

Yes No — Relief and venting systems tested and functional

Piping & Containment Systems

Yes No — Piping free from corrosion, deformation, or leaks

Yes No — Flange connections sealed and properly torqued

Yes No — Secondary containment systems intact and unobstructed

Instrumentation & Controls

Yes No — Gauges, transmitters, and indicators calibrated and functional

Yes No — Alarm and trip systems responsive and documented

Yes No — Control room communication and visibility effective

Electrical & Fire Protection

Yes No — Electrical systems compliant with hazardous area standards

Yes No — Fire suppression and deluge systems tested

Yes No — Extinguishers, hydrants, and monitors accessible and charged

Hazardous Materials Handling

Yes No — Chemical storage labeled and secured per compliance

Yes No — Spill response materials present and maintained

Yes No — Waste handling procedures documented and applied

Emergency Preparedness

Yes No — Evacuation routes and muster points clearly marked

Yes No — Alarm systems and PA communication reliable

Yes No — Drills and emergency training current for personnel

Compliance & Documentation

Yes No — Inspection and maintenance records up to date

Yes No — Permit-to-work procedures followed and logged

Yes No — Safety standards meet regulatory and industry requirements

Personnel Safety Practices

Yes No — PPE compliant and used correctly by workers

Yes No — Hot work areas controlled and monitored

Yes No — Confined space entries documented and supervised

Operational Performance

Yes No — No abnormal pressure, temperature, or flow indications

Yes No — System meets established safety and reliability targets

Yes No — Unit ready for continued production operations

FINAL NOTES

Inspector Comments:

Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

I confirm this inspection was completed accurately

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