INDUSTRIAL RADIOGRAPHY INSPECTION CHECKLIST
(X-Ray machines used for Non-Destructive Testing- stationary shielded room or field use)

North Carolina Regulations For Protection Against Radiation 10A NCAC 15 rule references shown in brackets below.

General Documents:
☐ Current copy of the State Regulations [.1002(a)(1)]
☐ Current Notice of Registration [.1002(a)(2)];[.0209];[.0523(a)1(A)]
☐ Notice to Employees (posted in restricted area) [.1002(c)]

Radiation Safety Program / Operating & Emergency / Inspection & Maintenance:
☐ Inspection and maintenance procedures [.0511(a)];[.0511(c)(1)]
☐ Operating and emergency procedures [.0513 (2,3,5,7,8,9,10,11)];[.0523(a)1(C),(14)]
☐ Current copy of radiation protection program [.1603(a)];[.1636]

Warning Labels & Devices /Security:
☐ Unit Security [.0514];[.1622]
☐ Appropriate caution signs posted [.0516];[.1623];[.1624]
☐ High radiation area permanent installations have appropriate visual and audible warning signals [.0520(a)(1)]

Records:
☐ Radiation detection survey instrumentation calibration reports [.0506(e)];[.0523(a)(3)]
☐ Utilization logs [.0509];[.0523(a)(6)]
☐ Operator Training records: initial certification and periodic training (once every 12 months) [.0510(a)(1),(2),(4)];[.0510(b)(1),(2)];[.0510 (c)];[.0510(e)]; [.0523(a)(9)]
☐ Radiation Safety Officer training documentation [.0510(h)]
☐ Inspection and maintenance reports [.0511(a)];[.0511(c)(1)];[.0511(d)];[.0523(a)(7)]
☐ Personnel exposure records TLD/film badge [.0512];[.0523(a)(11)];[.1614];[.1640]
☐ Pocket ion chamber daily exposure readings and annual operability checks [.0512];[.0523(a)(10)];[.1614];[.1640]
☐ Alarm system test for permanent radiographic installations [.0520(b) and (c)];[.0523(a)(8)]
☐ Area surveys (unit in use) [.0515(e)];[.0515(f)];[.0523(a)(13)]
☐ Calibration of alarm rate meters [.0523 (a)(15)]
☐ Operability checks of pocket dosimeters or electronic personal dosimeters [.0523(a)(15)]
☐ RSO annual radiation safety program review [.1603(c)];[.1636]
☐ Initial survey [.1613];[.1637(a) and (b)(1)]

Temporary Job Sites:
☐ Required records [.0523 (b) (1-4, 6-7, 9-12)]

Other Items of Interest:
☐ Previous inspection reports and letters of correspondence
☐ Radiographers certification card /IRRSP training documentation

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