## ANALYTICAL X-RAY CHECKLIST

(A FACILITY checklist is not required with this form.)

Facility	Date Surveyed				
Registration number Room number	Control number Inspector				
Facility Email Address Person Interviewed					
Control panel manufacturer and serial no					
Tubehead manufacturer and serial no.					
Handheld Open Beam Enclosed Beam Unit is in storage and not being used.					
<u>Facility</u> Circle Y for yes (compliant), N for no (nature of the facility) (All reg references preced	noncompliant) and N/A for not applicable.				
Y N N/A	cu oy 0400 20 )				
1. O Copy of registration form available for this	unit. (0411(1)(d))				
2. Is the information on the registration form for possessor and location? (1024(5))	or this unit accurate as to address, ownership,				
3. Are all of the units registered under this reg	Are all of the units registered under this registration possessed by the registrant? (1024(5))				
4. Are all of the units possessed at this facility	Are all of the units possessed at this facility registered? (1024(1))				
5. Regulations present. (0411(1)(a))					
6. O O "Notice to Employees" (RHS 8-3) posted.	(0411(1)(g))				
7. Switch at control panel and any remote swit EQUIPMENT PRODUCES RADIATION	ch labeled "CAUTION-RADIATION, THIS ON WHEN ENERGIZED". (05111(11))				
<b>Equipment</b>					
8.	labeled with the notation "X-ray On" or equivalent etivated? (0607(1)(c))				
9.	using indicating when the x-ray tube is on? (0607(1)(e))				
10.	g of a fail-safe design? (0607(1)(e))				
Does the equipment have a beam trap suffice less than 0.25 mR/hr at 5 centimeters (2)	ient to limit the dose rate from the primary beam to inches) from the primary barrier? (0607(1)(d))				

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## **Operation of Equipment**

	Y	N	N/A	
12.	0	$\bigcirc$		Have all operators been instructed in the requirements of 0400-20-0607(2)(a)?
13.	$\bigcirc$	$\bigcirc$		Is training provided and records of all user and operator training maintained? (0607(3)(c))
14.	$\bigcirc$	$\bigcirc$		Operating and emergency procedures available and posted near the unit. (0607(2)(c))
15.	$\bigcirc$	$\bigcirc$		Tests of all safety devices performed quarterly. (0607(2)(f)) [interlocks, shutters, warning lights, etc.]
16.	$\bigcirc$	$\bigcirc$		Records of safety device tests maintained. (0607(2)(f))
17.	$\bigcirc$	$\bigcirc$		Is the machine secure when left unattended? (0607(1)(i)5. and 0604(5))
18.	$\bigcirc$	$\mathbb{C}$		Has a survey been performed to determine that the unrestricted area dose limits are met and records maintained of this determination? (0561, 0607(2)(h), and 05136)
19.	$\bigcirc$	$\bigcirc$		Personnel monitoring provided or determination performed. (0607(2)(h) and 0571)
20.	$\bigcirc$	$\bigcirc$		If handheld, extremity dosimeters provided or determination performed? (0607(3)(b))
21.	0	$\bigcirc$		Personnel monitoring records or determination records maintained properly. (0607(2)(h) and 05135)

## **Notes**

## **Definitions**

Analytical x-ray equipment – Any device which utilizes x-ray for the purpose of examining the *microstructure* of materials. (06-.03(4))

Open beam x-ray equipment – An *analytical* x-ray producing device designed in such a way that the primary beam is not completely enclosed by the tube housing-apparatus complex during normal operation. (06-.03(39)

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