NJDEP
Medical Physicist's
Fluoroscopic QC Survey

PLEASE PRINT			
Facility Information			
Name			
NJDEP Facility ID #			
Unit Information			
Registration #			
Manufacturer		Model	
Console Model #		Console serial #	
Tube serial #		Location (room)	
QC Survey Information			
Date of QC Survey			
Qualified Medical Physicist Name			
Medical Physicist Assistant in Fluoroscopy Name			

CERTIFICATION STATEMENT
I certify that to the best of my knowledge the information in this document and all attached documents is true, accurate and complete
Medical Physicist Signature Date
Medical Physicist Assistant Signature Date

NOTE: Please mark all tests performed by Certified Physicist Assistant with an (*).

Fluoroscopic Registration No.:

Item	Description	Pass	Needs Repair	N/A	Standard
Fluoroscopic Unit Assembly Evaluation					
1	Is tube registered with DEP? EACH TUBE must have a separate registration number				NJAC 7:28 -3.3(a)
2	Radiation safety survey of the environs current				NJAC 7:28 -15.10
3	Primary protective barrier intercepts the entire cross-section of the useful beam				NJAC 7:28 - 15.5(b)1
4	Primary protective barrier in place before x-ray production can occur				NJAC 7:28 - 15.5(b)1i
5	Exposure rate due to transmission through primary protective barrier does not exceed 2 mR/hour				NJAC 7:28 - 15.5(b)1ii
	Measured:				
6	Source to skin distance for stationary units not less than 15 inches				NJAC 7:28 - 15.5(b)11
7	Source to skin distance for portable units not less than 12 inches				NJAC 7:28 - 15.5(b)11
8	If used for surgical applications source to skin not less than 8 inches				NJAC 7:28 - 15.5(b)11
9	Bucky slot cover and protective drapes				NJAC 7:28 - 15.5(b)14, 15
10	kVp and mA indicator present on control panel				NJAC 7:28 - 15.5(b)10
11	5 minute fluro timer meets all requirements				NJAC 7:28 - 15.5(b)12
12	Control provided that requires continuous pressure by the operator to produce x-rays				NJAC 7:28 - 15.5(b)4
Entrance Exposure Rate to Image Intensifier					
13	Does entrance exposure rate to image intensifier meet manufacturer's specifications?				Manufacturer's
	Manufacturer's specifications:				
	Measured :				
Patient Entrance Exposure Rate					
14	Does patient entrance exposure rate meet manufacturer's specification?				Manufacturer's
	Manufacturer's specifications:				
	Measured :				

Fluoroscopic Registration No.:

Item	Description	Pass	Needs Repair	N/A	Standard
Maximum Exposure Rate					
15	Units with automatic exposure control not to exceed 10 R/min				NJAC 7:28-15.5(b)5
	Measured: R/min at kVp mA				
16	Units without automatic exposure control not to exceed 5 R/min				NJAC 7:28-15.5(b)6
	Measured: R/min at kVp mA				
17	Units with both automatic and manual exposure rate control not to exceed 10 R/min				NJAC 7:28-15.5(b)5
	Measured: R/min at kVp mA				
	High Level Control				
18	A special means of activation (such as two step pedal)				NJAC 7:28-15.5(b)7i
19	Continuous manual activation provided for operator				NJAC 7:28-15.5(b)7ii
20	Continuous signal audible to operator				NJAC 7:28-15.5(b)7iii
High Contrast Resolution/Low Contrast Resolution for Fluoroscopy Video Monitor					
21	High contrast meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured :				
22	Low contrast meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured :				
Spot Film Automatic Exposure Control (AEC) System Performance					
23	AEC meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured :				

Fluoroscopic Registration No.:

Item	Description	Pass	Needs Repair	N/A	Standard
High Contrast Resolution/Low Contrast for Fluoroscopy Image recording System (i.e. spot film device, cine system, videotape system) NOTE: if fluoroscopy unit has more then one image recording system (i.e. a spot film device and a videotape system) each system must be tested					
24	High contrast resolution of spot film device meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
25	High contrast resolution of cine system meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
26	High contrast resolution of videotape system meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
27	High contrast resolution of (insert name of device) meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
28	Low contrast resolution of spot film device meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
29	Low contrast resolution of cine system meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
30	Low contrast resolution of videotape system meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				
31	Low contrast resolution of (insert name of device) meets manufacturer's specifications				Manufacturer's
	Manufacturer's specifications:				
	Measured:				

Fluoroscopic Registration No.:

Item	Description	Pass	Needs Repair	N/A	Standard
Half Value Layer					
32	Half value layer meets manufacturer's specification:				Manufacturer's
	Manufacturer's specification:				
	Measured:				
Kilovoltage					
33	Kilovoltage meets manufacturer's specification:				Manufacturer's
	Manufacturer's specification:				
	Measured:				
Fluoroscopic and Spot Film Collimator Assessment					
	Image Intensified Units – Test all magnification modes				
38	Length/width of the X-ray field not to exceed that of the visible area of the image receptor by more than 3% of the SID				NJAC 7:28-15.5(b)3i
39	Sum of the excess length and excess width not to exceed 4% of the SID				NJAC 7:28-15.5(b)3ii
40	Rectangular X-ray fields with a circular receptor, error in alignment determined by comparison of the length and width of the X-ray field with the diameter of the visible area of the image receptor which parallels them				NJAC 7:28-15.5(b)3iii
41	Means to indicate when system is perpendicular where angle between image receptor and beam axis is variable				NJAC 7:28-15.5(b)3iv
42	Beam limiting device present and meets all requirements				NJAC 7:28-15.5(b)3v, 3vi
43	Stepless adjustment at greatest SID to provide continuous field sizes from maximum to 5 cm X 5 cm				NJAC 7:28-15.5(b)3vii
44	Override of automatic adjustment in case of system failure				NJAC 7:28-15.5(b)3viii
	Spot Film Device – Test all sizes used				
45	Automatically limit the x-ray field at the time of exposure				NJAC 7:28-15.5(b)18i
46	Neither length nor of the x-ray field in the pane of the image receptor shall differ by more than 3% of the SID				NJAC 7:28-15.5(b)18ii
47	Image receptor centers alignment not to exceed 2% of the SID				NJAC 7:28-15.5(b)18iii
48	A device provided to reduce the x-ray field to a size smaller than the image receptor				NJAC 7:28-15.5(b)18.iv
49	With fixed SID the minimum field size shall nor exceed 5 cm X 5 cm				NJAC 7:28-15.5(b)18iv1
50	With variable SID shall have stepless adjustment of the field size to 5 cm X 5 cm				NJAC 7:28-15.5(b)18iv2
51	Automatic x-ray field size adjustment override				NJAC 7:28-15.5(b)18v

Fluoroscopic Registration No.:

Item	Description	Pass	Needs Repair	N/A	Standard
Review of Facility/Technologist QC Test Records.					
52	All QC tests comply with the minimum frequencies and standards as per N.J.A.C. 7:28-22.6.				NJAC 7:28-22.6
	If no, please specify finding(s)				
PROHIBITED INSTALLATIONS					
No person shall operate, permit to be operated, maintain or display in working condition any of the following					
53	Shoe-fitting fluoroscopic devices				15.11(a)1
54	Chest photo-fluorographic machine after October 18, 1994				15.11(a)2
55	Fixed vertical systems designed for non-image intensified fluoroscopy used for radiography after October 18, 1994				15.11(a)3
56	Uncertified fluoroscopic equipment that does not have image intensification after October 18, 1994.				15.11(a)4
57	Hand-held fluoroscopic screens				15.11(a)5

Fluoroscopic Registration No.:

Summary of Areas Needing Correction

Recommendations

Statement of Meeting	
Date of the Meeting or Conference Call	
Persons Attending	

Registrant's Receipt of Report	
I have received this report and I agree to correct any deficiencies in accordance with N.J.A.C. 7:28-22.9(f).	
Registrant or designee signature	Date

kVp Accuracy

Provide measurements in diagnostic range for minimum of six (6) different kVp settings.

mA Set =	mS Set =	mAs Set=	
kVp Set	kVp Measured	% kVp Error	mR Measured

% Accuracy = $\frac{(\text{measured value} - \text{set value}) \times 100}{\text{set value}}$

Half-Value Layer (HVL)

Minimum of three (3) measurements: One measurement for zero mm Al, one measurement before actual HVL and one measurement near actual HVL.

kVp Set =		
mS Set =	mA Set =	mAs Set =
mm Al.	kVp Measured	mR Measured
0 mm Al		
mm Al @ kVp		