DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
FOOD AND DRUG ADMINISTRATION

UNDERTABLE X-RAY SOURCE FLOROSCOPIC AND SPOT FILM SYSTEMS

FIELD TEST RECORD

*(Use Form FDA 2782, Field Test Record Continuation, if more space is needed.)*

Print Legibly. Use Black Ball Point Pen. Enter One Character Per Box. Do Not Write in Shaded Area.

FIELD TEST SERIAL NO. *(1-8)*

UF

REGIONAL REVIEW (NAME)

Card No.
(9-10)

Test Procedure

1.

UF

11   13

Beam Limiting Device Information

2.

Manufacturer

Mfr. Code

14   17

3.

Model No.

Unique ID

18   23

Component Certification Information

4. Indicate the Status of Each as Follows:

C - Certified
N - Not Certified

V - Certified with a Variance
X - Not Present

24 Tube Housing Assembly

25 X-Ray Control

26 Spot Film Device *(after 4/77)*

27 Beam Limiting Device

28 High Voltage Generator

29 Fluoroscopic Imaging Assembly *(before 4/77)*

30 Table

31 Image Intensifier *(after 4/77)*

10

Interlock Test

5.

X-Ray Production Prevention When Image Receptor Not in Position to Intercept Beam

32   Y--YES   N--NO   X--UNTESTED

Surveyor Protection and Tracking Test:

6.

System Hazardous   *33*   Y--YES   N--NO

If yes, describe hazard in Remarks and discontinue testing

7.

Beam Limiting Device Tracks Image Receptor Properly   *34*   Y--YES   N--NO

X-Ray Field/Image Receptor Alignment

MDH (Exposure)

S5

Insert Loaded Plastic Casette After Centering Test Stand.

	Image Dimension		X-Ray Field Dimension
1/4	8. *35* • *37* in.	Image Intesifier Positioned at Worst Case SID. Data Here Only if Answer to Tracking Question (#7) is "NO". Otherwise Proceed with Data at 16-23.	12. *38* • *40* cm
2/1	9. *41* • *43* in.		13. *44* • *46* cm
3/2	10. *47* • *49* in.		14. *50* • *52* cm
4/3	11. *53* • *55* in.		15. *56* • *58* cm

24. Tube Potential and Current Continuously Indicated During Exposure

23   Y--YES   N--NO

25. Warning Label Present   *30*   Y--YES   N--NO

	Image Dimension		X-Ray Field Dimension
1/4	16. *11* • *13* in.	Only Part of Test That Requires Magnification Mode. Take Out of This Mode After Completing the Test.	20. *14* • *16* cm
2/1	17. *17* • *19* in.		21. *20* • *22* cm
3/2	18. *24* • *26* in.		22. *27* • *29* cm
4/3	19. *31* • *33* in.		23. *34* • *36* cm

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Entrance Exposure Rate: (BLD fully open, no

11

S2

MDH (Exposure rate)
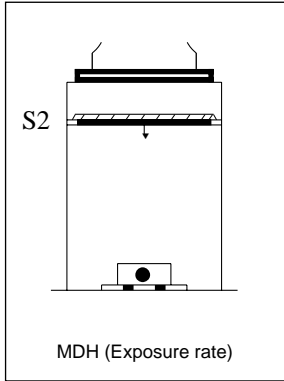
26. Fluoroscopic Technique Factor Control Type — M--Manual Only   A--Automatic Only   B--Both Manual And Automatic   `37`

AUTO

27. `38` `40` kVp

28. `41` . `42` mA

29. `43` . `46` R/min

30. Is a high level control present?   Y--YES   N--NO   `47`

31. Continuous Audible Signal Upon Activation of High Level Control   Y--YES   N--NO   X--N/A   `48`

MANUAL

32. `49` `51` kVp

33. `52` . `53` mA

34. `54` . `57` R/min

35. Is a high level control present?   Y--YES   N--NO   `58`

31. Continuous Audible Signal Upon Activation of High Level Control   Y--YES   N--NO   X--N/A   `59`

Primary Barrier Transmission:

min SSD:

37. `60` `62` kVp

38. `63` . `64` mA

39. `65` . `68` R/min

40. `69` . `72` mR

41. `73` . `75` sec

Copper appropriate for selected kVp: greater than 125 kV-0.12"; 100 to 125 kV-0.1"; 99 kV or less - 0.08".

42. Outside Separtion of Image of Focal Spot Strips   `76` . `78` cm

Beam Quality:

12

43. `11` `13` kVp

MDH (Pulse Exposure) 4.5 mm Al

44. `14` `16` mR @ 4.5 mm Al

45. `17` . `19` sec

46. `20` `22` mR @ 3.5 mm Al

47. `23` . `25` sec

48. `26` `28` mR @ 2.5 mm Al

49. `29` . `31` sec

50. `32` `34` mR @ 1.5 mm Al

51. `35` . `37` sec

52. `38` `40` mR @ 0.0 mm Al

53. `41` . `43` sec

54. At End of Preset Cumulative Time Interval Either Continuous Audible Signal and/or Termination of X-rays   `44` Y--YES   N--NO

Spot-Film Reproducibility and X-ray Field/Image Receptor Size Comparison:

MDH (Pulse Exposure)

S2

55. Type of Spot Film Exposure Timer   `43`   M--Manually Set Timer or mAs Selector only   B--Both Manually Set Timer or mAs Selector and Phototimer   P--Phototimer Only

56. MDH Threshold Setting   Ø . `46`

Technique Factors

57. `47` `49` kVp

58. `50` `52` mA

59. `53` `55` sec

60. `56` `58` mAs

61. Selected Format Dimension Along Table   `59` . `61` in   OR   `62` . `64` cm

63. Image Along Table   `65` . `67` cm

62. Selected Format Dimension Across Table   `68` . `70` in   OR   `71` . `73` cm

64. Image Across Table   `74` . `76` cm

65. Distance From Table Top to Spot Film Plane   `77` . `79` cm
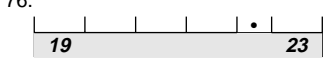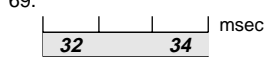
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Spot-Film Continued:

13

66. |____|____|____|____|•|____| mR
11 — *15*

67. |____|____|____| msec
16 — *18*

76. |____|____|____|____|•|____| mR
19 — *23*

77. |____|____|____| msec
24 — *26*

68. |____|____|____|____|•|____| mR
27 — *31*

69. |____|____|____| msec
32 — *34*

78. |____|____|____|____|•|____| mR
35 — *39*

79. |____|____|____| msec
40 — *42*

70. |____|____|____|____|•|____| mR
43 — *47*

71. |____|____|____| msec
48 — *50*

80. |____|____|____|____|•|____| mR
51 — *55*

81. |____|____|____| msec
56 — *58*

72. |____|____|____|____|•|____| mR
59 — *63*

73. |____|____|____| msec
64 — *66*

82. |____|____|____|____|•|____| mR
67 — *71*

83. |____|____|____| msec
72 — *74*

14

74. |____|____|____|____|•|____| mR
11 — *15*

75. |____|____|____| msec
16 — *18*

84. |____|____|____|____|•|____| mR
19 — *23*

85. |____|____|____| msec
24 — *26*

86. Technique Factors fixed or selectable Indicated Before Exposure |____|
27
Y--YES
N--NO

87. Exposure Terminated After Preset Time Interval, Preset mAs, Preset Number of Pulses, Or Preset Radiation Exposure To Image Receptor |____| Y--YES   N--NO
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REMARKS