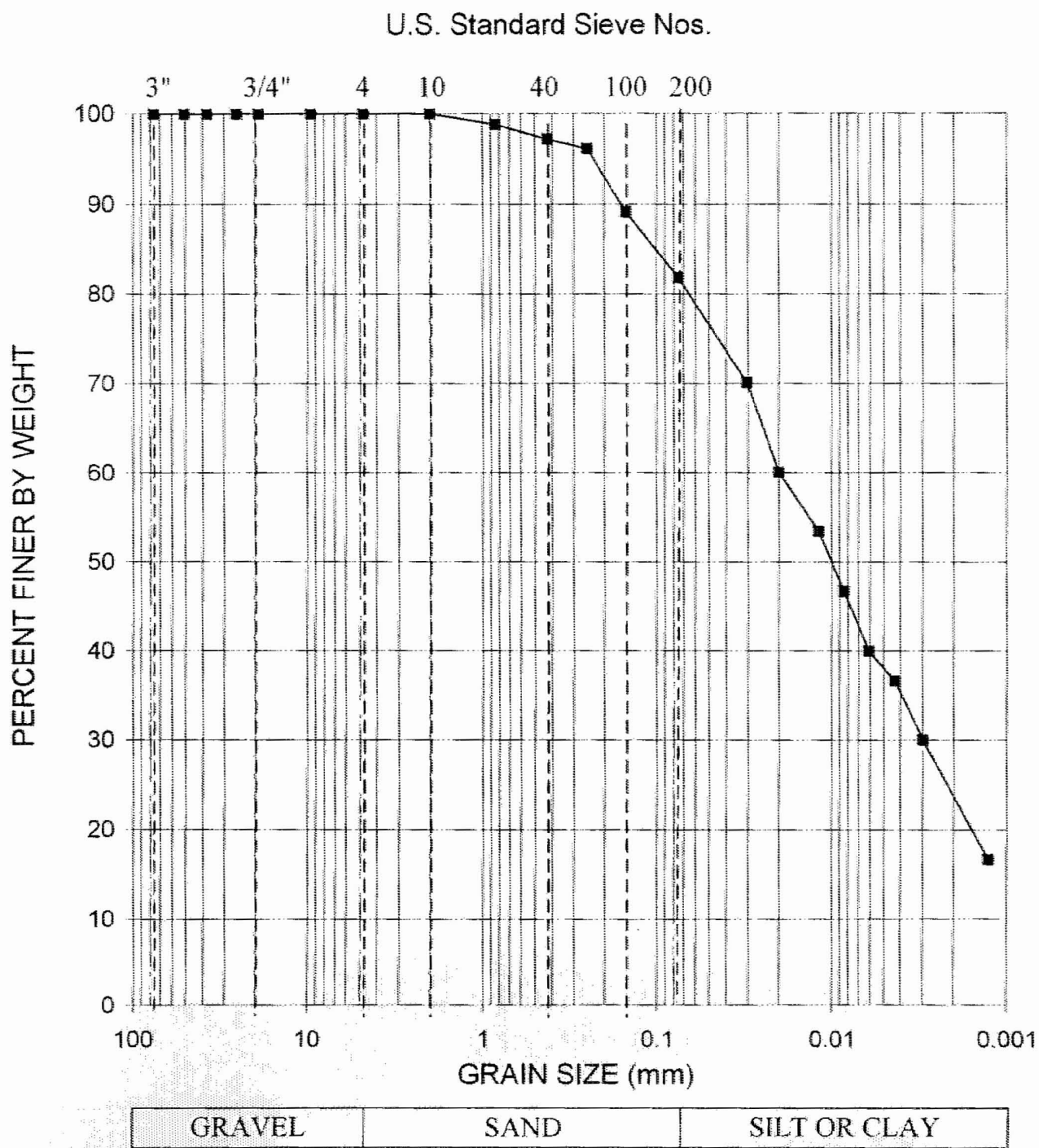


5311



GRADATION CURVE
ASTM D422

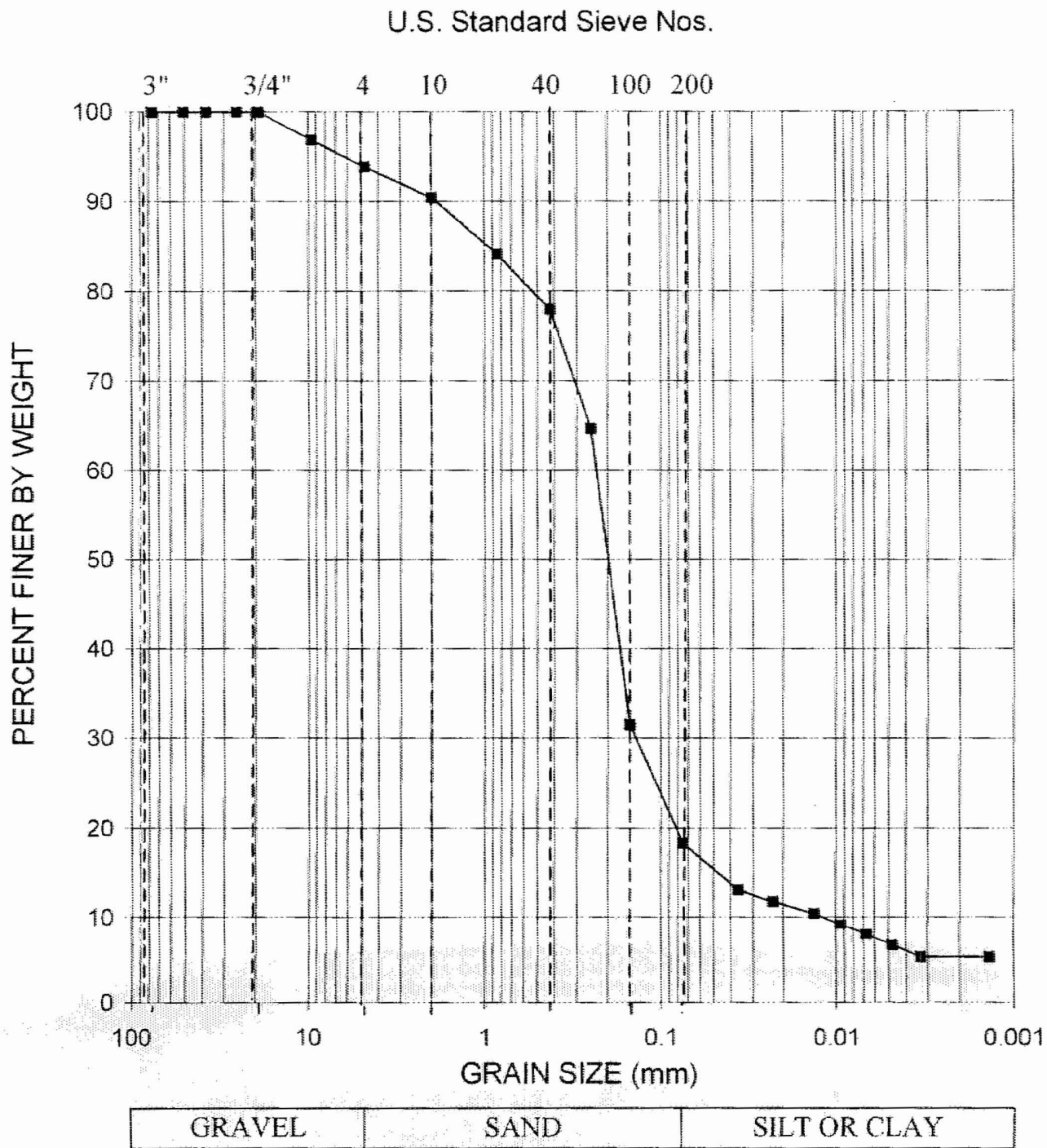
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	1/16/2007
Boring No./ Sample No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-318/C-3A	43.5-45.0, 48.5-50.0	FAT CLAY, with sand, dark green	CH				

10-2 (Rev. 8-1)



10-2 (Rev. 8-1)

10-2 (Rev. 8-1)



1. 6. 3. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

100

90

80

70

60

50

40

30

20

10

0

100

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

100

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

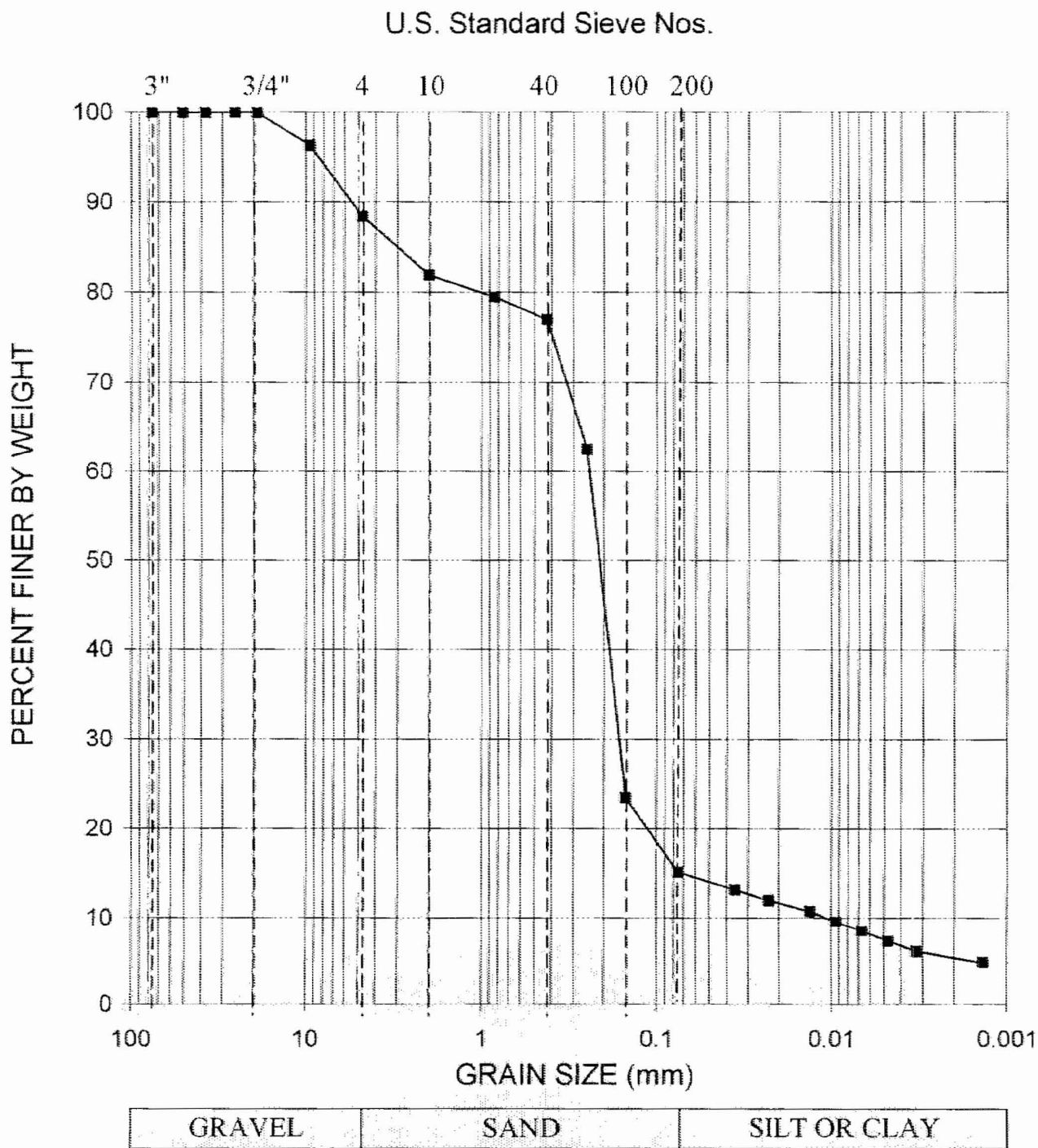
100

100

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100

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

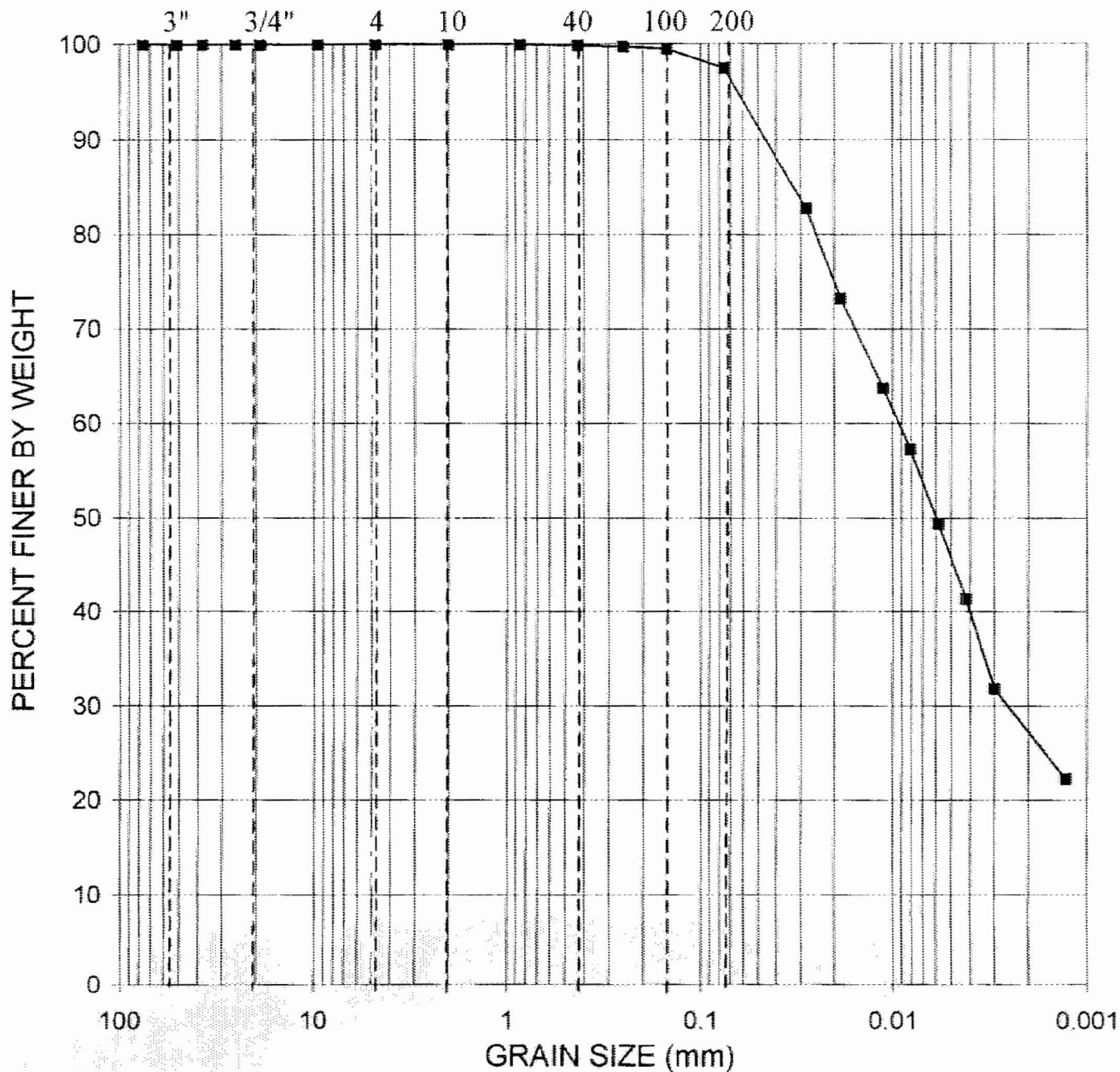


GRADATION CURVE

ASTM D422

| | | | | | | | |
|---------------------------|---|-------------------------------------|--------|--------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No. | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-401/C-6A | 63.5-65.0,
73.5-75.0 | Silty SAND, trace shells, dark gray | SM | | | | |

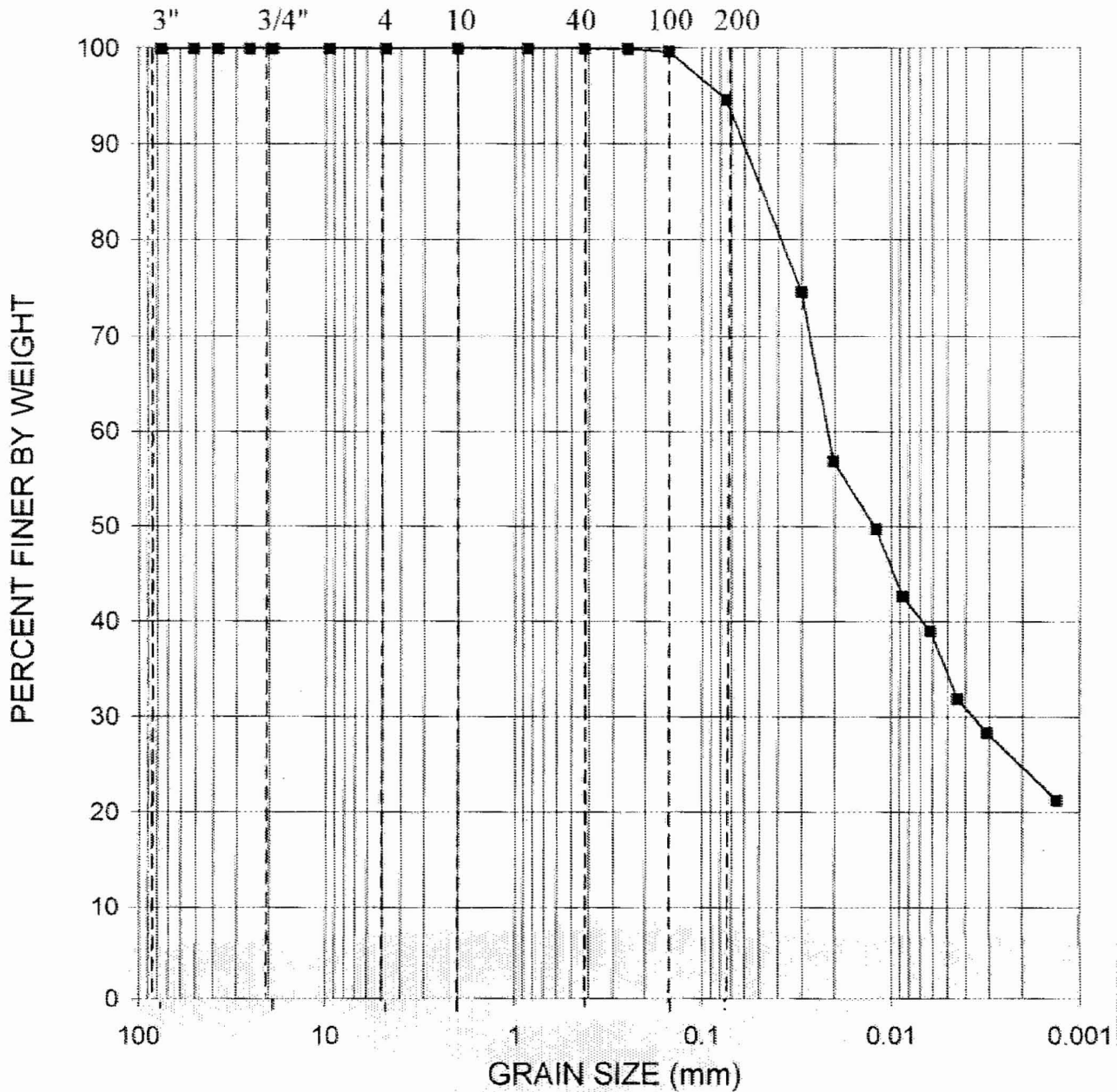
U.S. Standard Sieve Nos.



GRADATION CURVE ASTM D422

| | | | | | | | |
|---------------------------|---|---------------------|--------|--------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No. | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-402/ C-7A | 23.5-25.0,
28.5-30.0 | FAT CLAY, dark gray | CH | | | | |

U.S. Standard Sieve Nos.



GRADATION CURVE
ASTM D422

| | | | | | | | |
|---------------------------|---|---------------------|--------|---------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No.: | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-422/ C-8A | 48.5-50.5 | FAT CLAY, dark gray | CH | | | | |

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

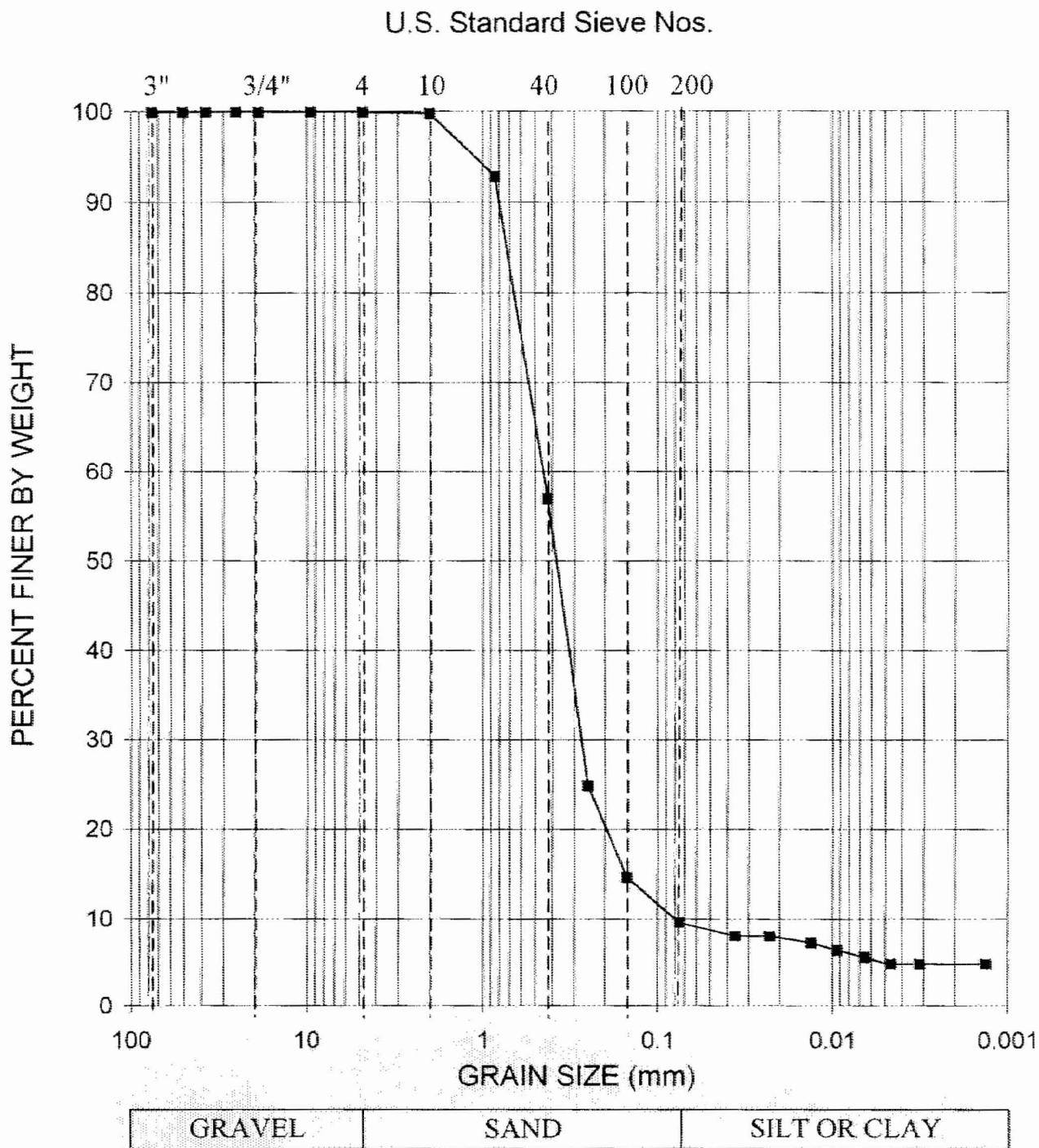
1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)

1945-1946 (20)



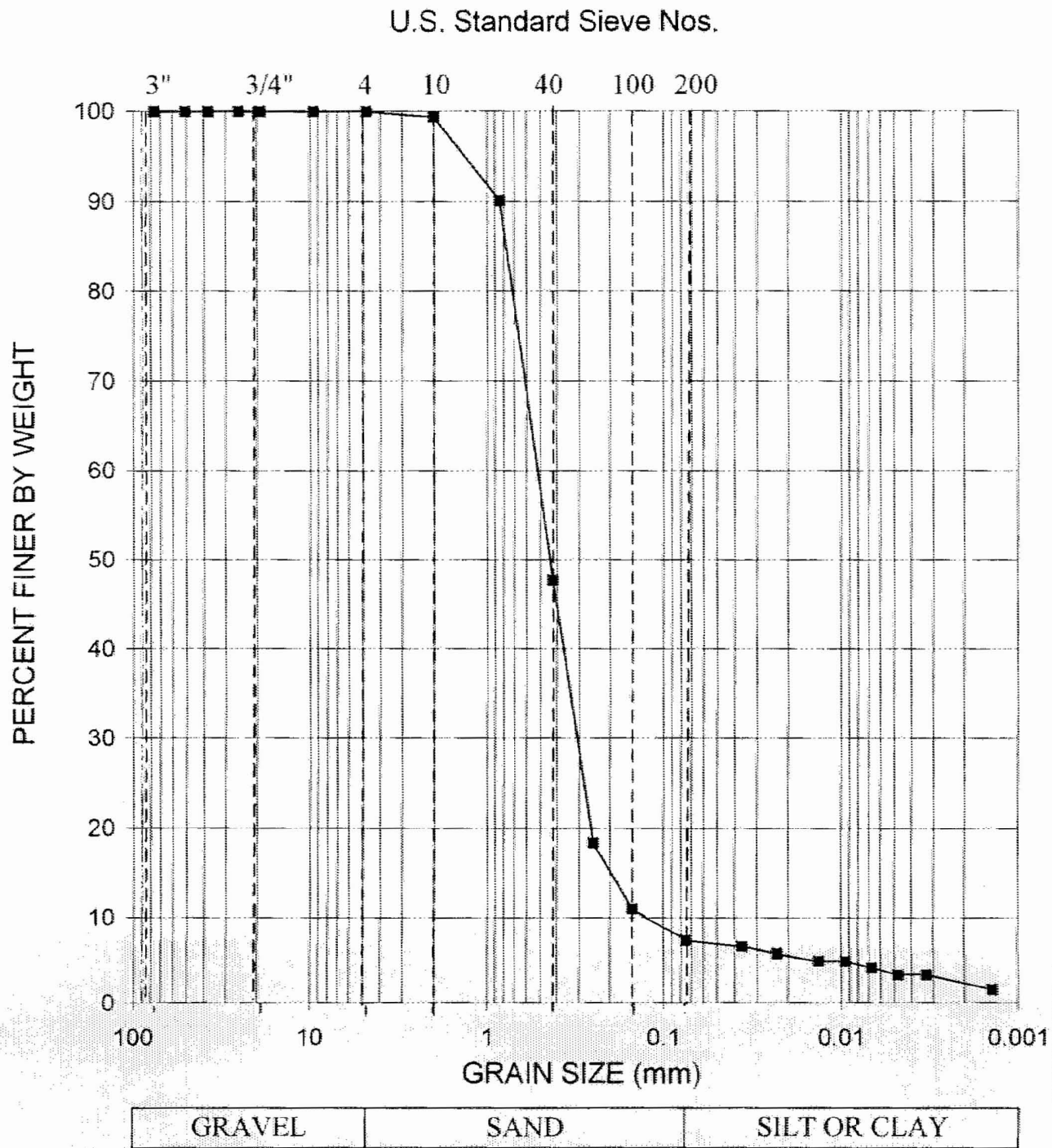
GRADATION CURVE

ASTM D422

| | | | | | | | |
|---------------------------|---|---|--------|---------------|--------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No.: | 061200-48.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-424/C-9A | 33.5-35.0,
38.5-40.0 | Poorly Graded SAND, with silt, orange-
brown | SP-SM | | | | |

SECRET
U.S. GOVERNMENT
PRINTING OFFICE

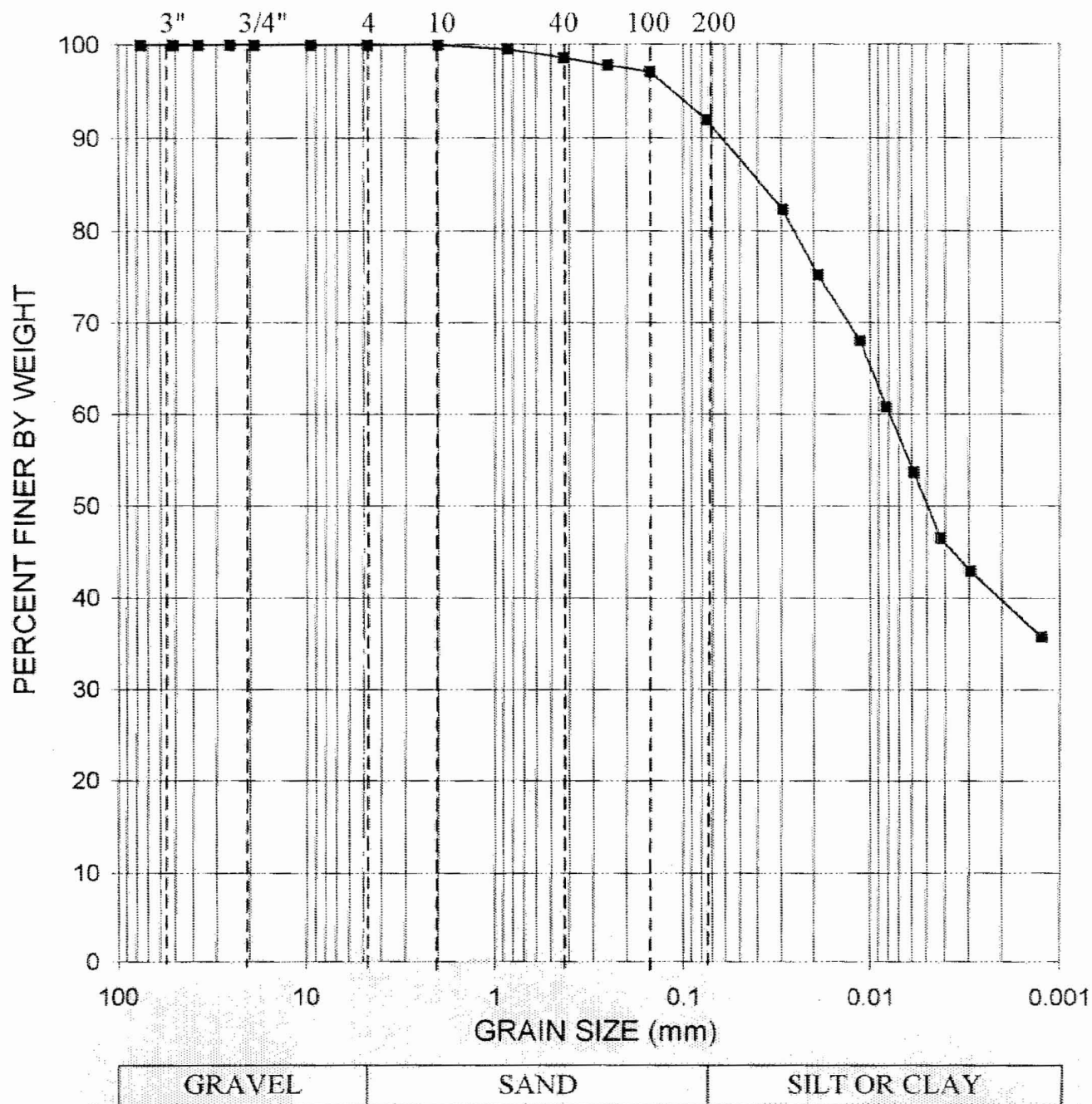
SECRET
U.S. GOVERNMENT
PRINTING OFFICE



GRADATION CURVE
ASTM D422

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|---------------------------|---|---|--------|----|--------------|---|-------|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | | Contract No. | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | | |
| B-428, B-429/
C-10A | 38.5-40.0,
38.5-40.0 | Poorly Graded SAND, with silt, orange-
brown | SP-SM | | | | | |

U.S. Standard Sieve Nos.

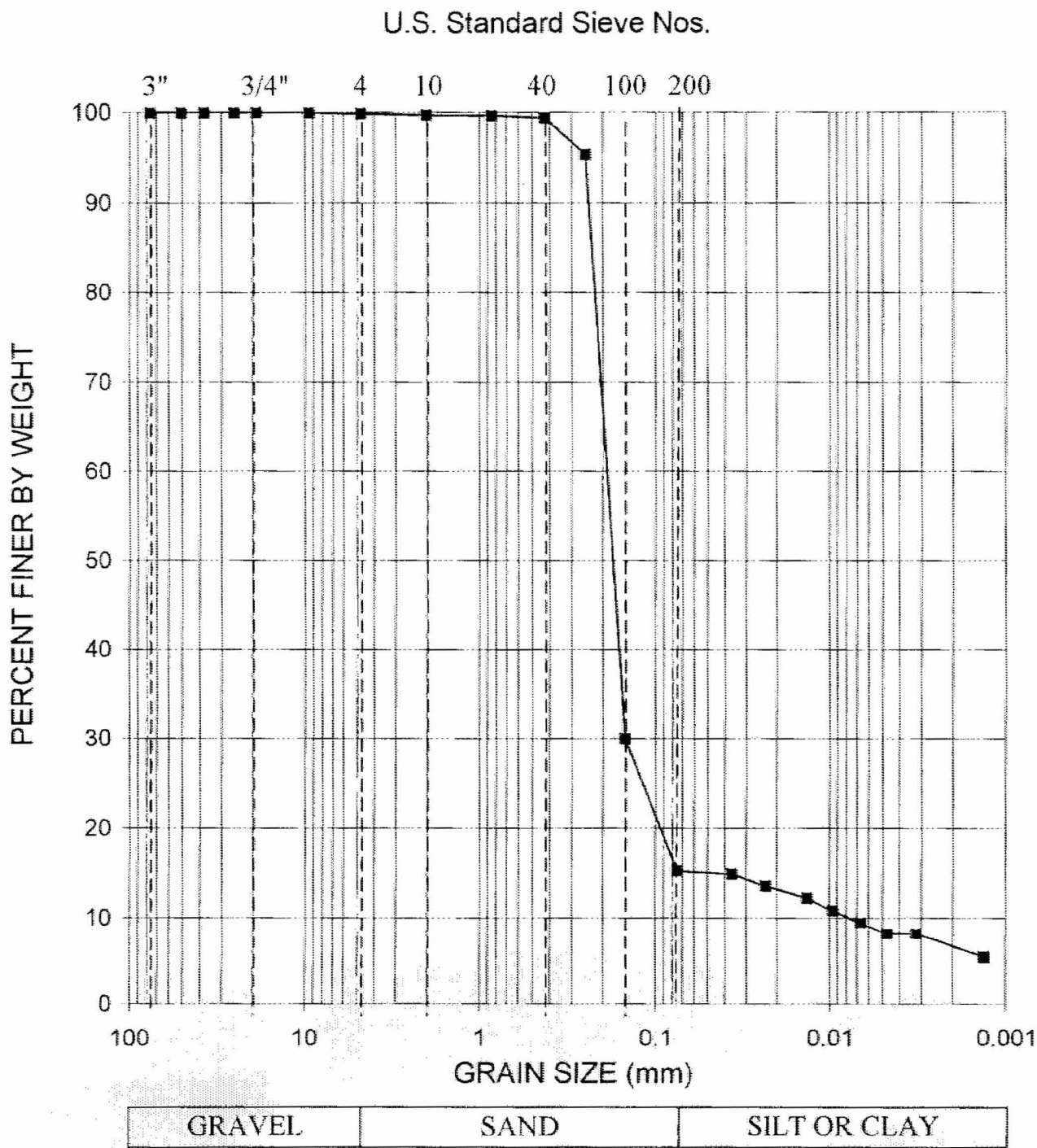


GRADATION CURVE ASTM D422

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|---------------------------|---|---------------------|--------|--------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No. | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-428/C-11A | 63.0-65.0 | FAT CLAY, dark gray | CH/OH | | | | |

1000

Abstract

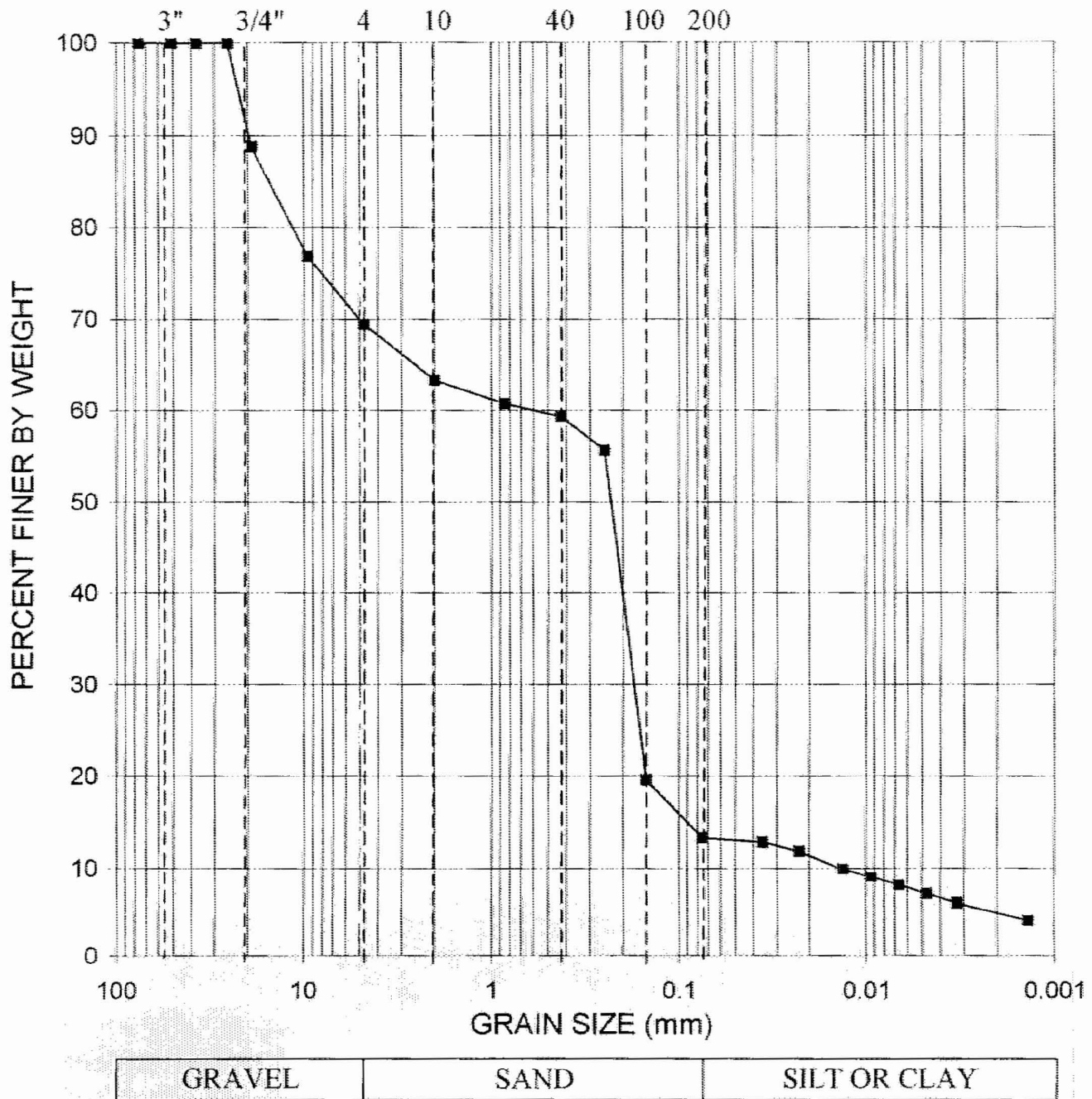


1900

identical

RECEIVED

U.S. Standard Sieve Nos.



GRADATION CURVE

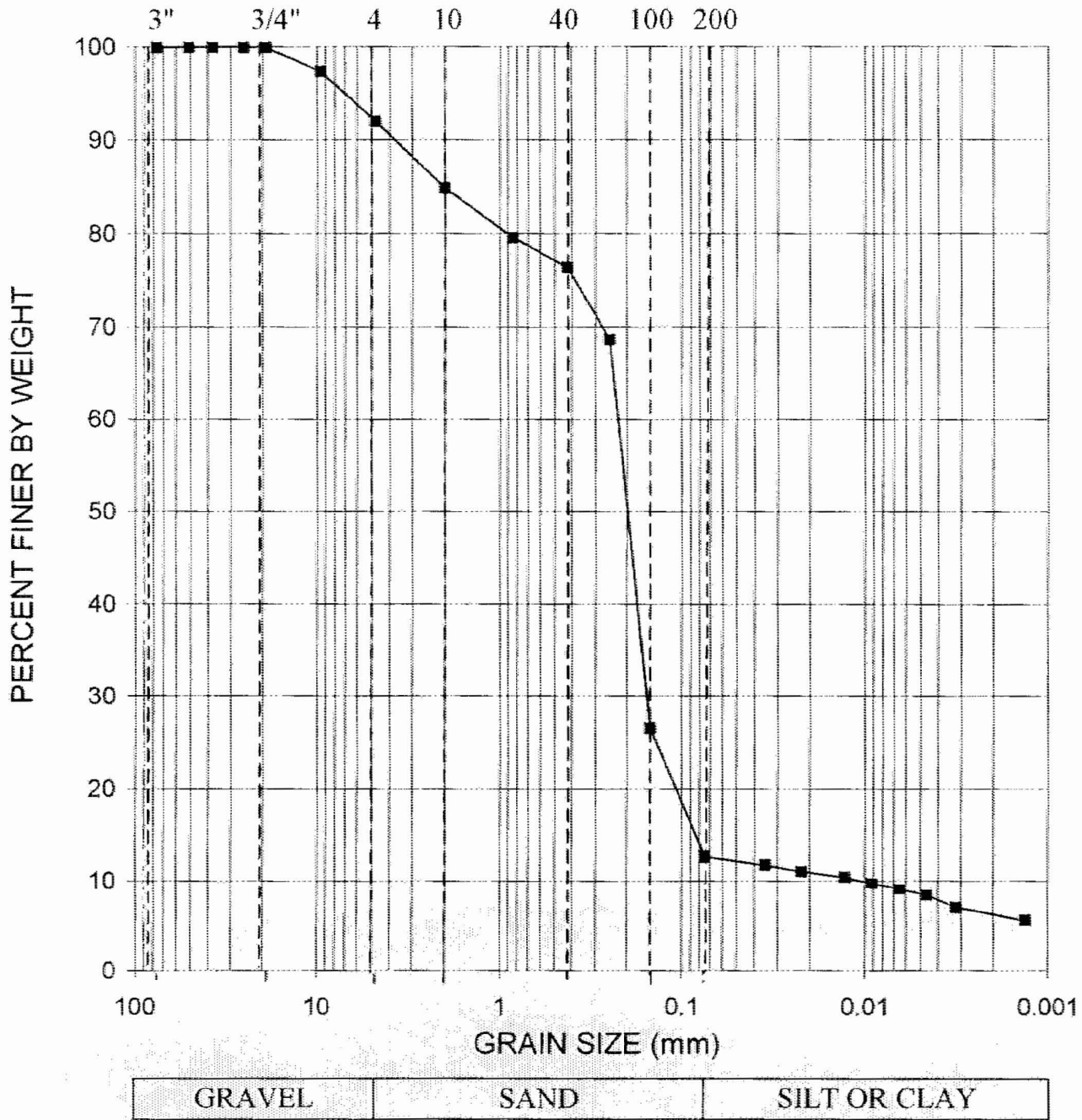
ASTM D422

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|---------------------------|---|------------------------------------|--------|--------------|-------------|---|-----------|
| Project | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No. | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-708/ C-13A | 23.5-25.0,
28.5-30.0 | Silty SAND, with shells, dark gray | SM | | | | |

SECRET//NOFORN

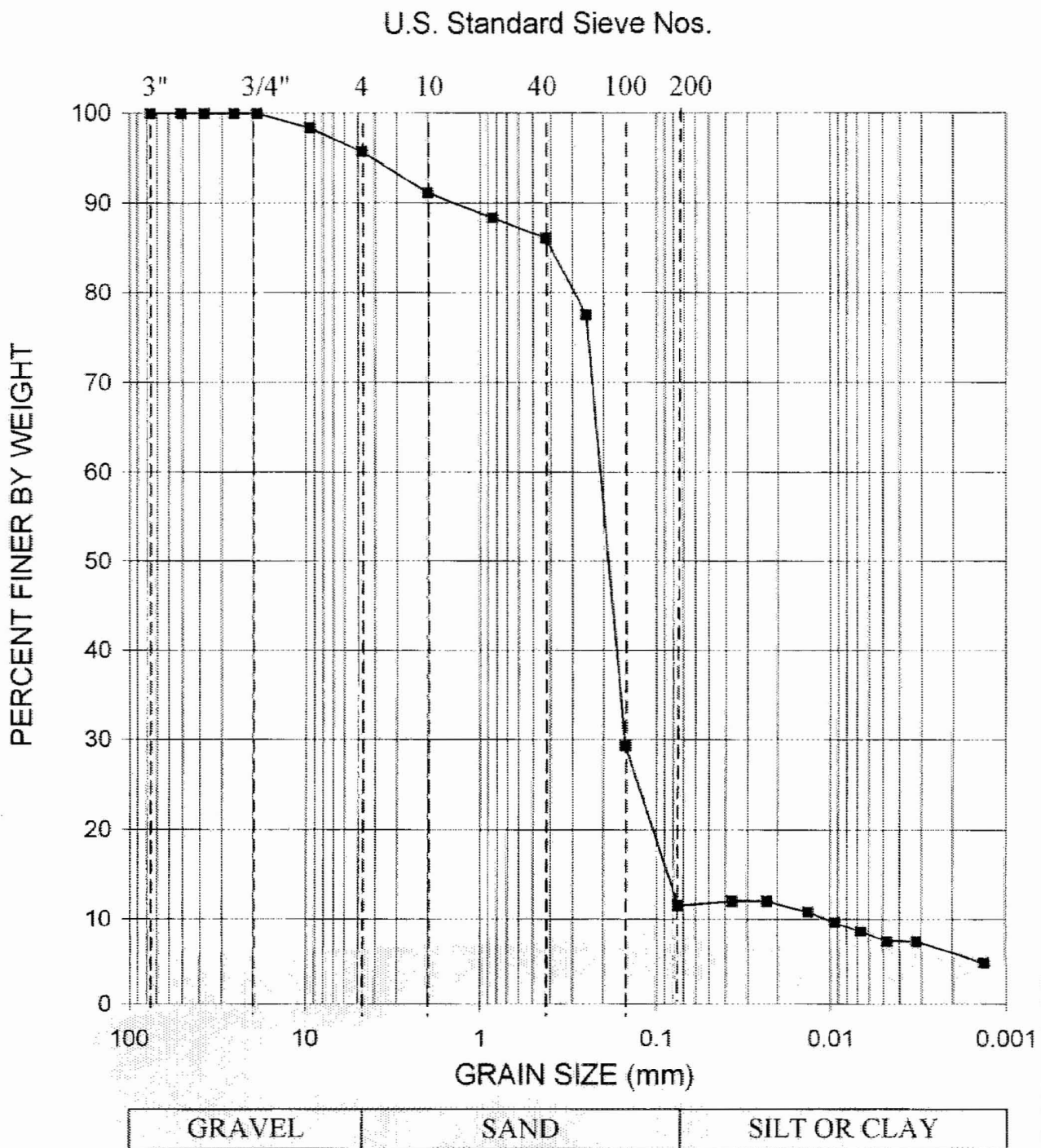
Valentin

U.S. Standard Sieve Nos.



GRADATION CURVE
ASTM D422

| | | | | | | | |
|---------------------------|---|-------------------------------------|-------|---------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No.: | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class | LL | PI |  | |
| B-711/C-14A | 28.5-30.0,
33.5-35.0 | Silty SAND, trace shells, dark gray | SM | | | | |



| | | | | | | | |
|---------------------------|---|---|--------|---------------|-------------|---|-----------|
| Project: | Constellation Energy Group COLA Project,
Calvert Cliffs Nuclear Power Plant (CCNPP),
Calvert County, Maryland | | | Contract No.: | 06120048.00 | Date: | 1/16/2007 |
| Boring No./
Sample No. | Depth (ft) | Sample Description | Class. | LL | PI |  | |
| B-725/ C-15A | 48.5-50.0,
53.5-55.0 | Poorly Graded SAND, with silt, trace shells,
dark gray | SP-SM | | | | |