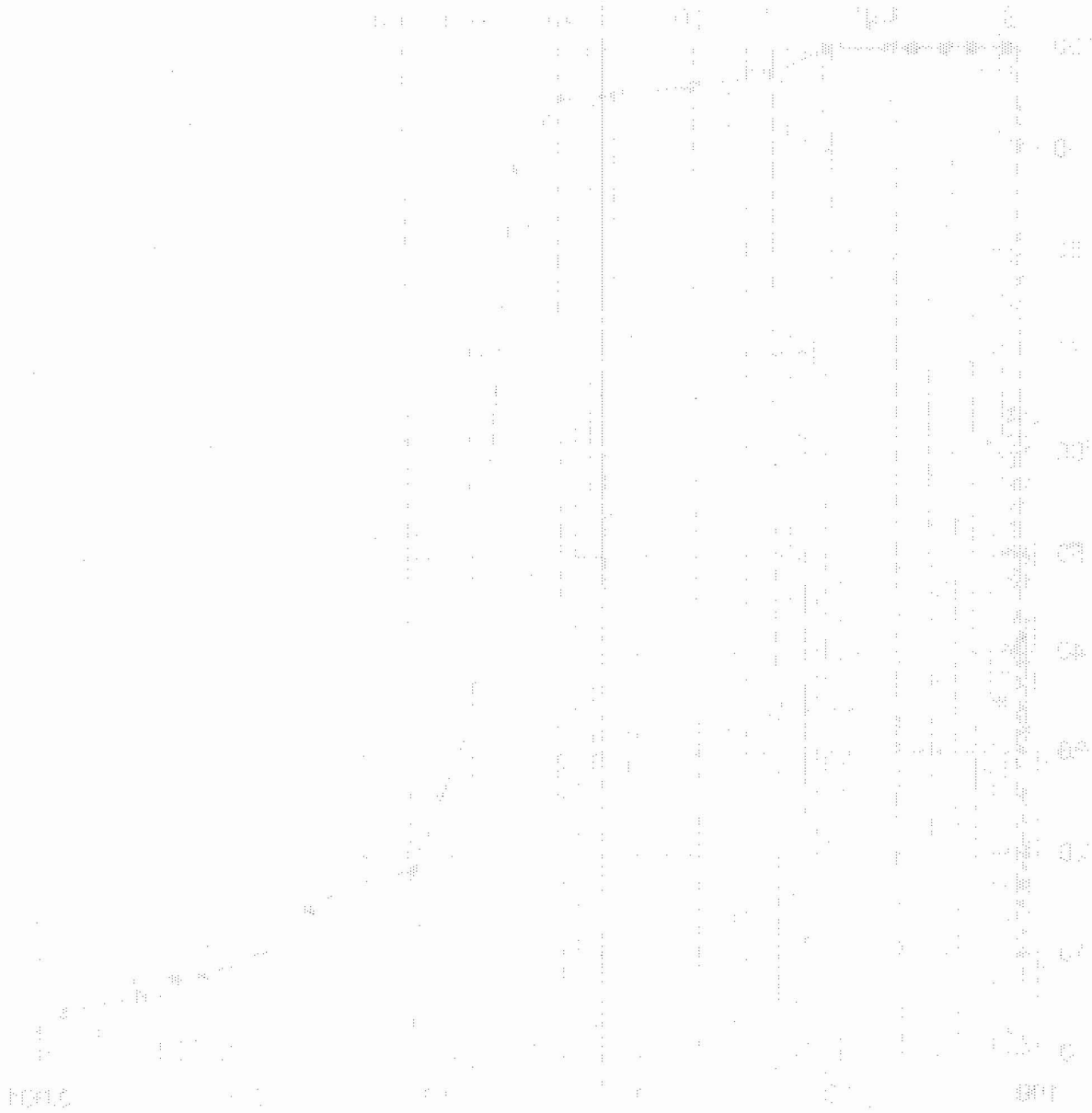


U.S. AIR FORCE



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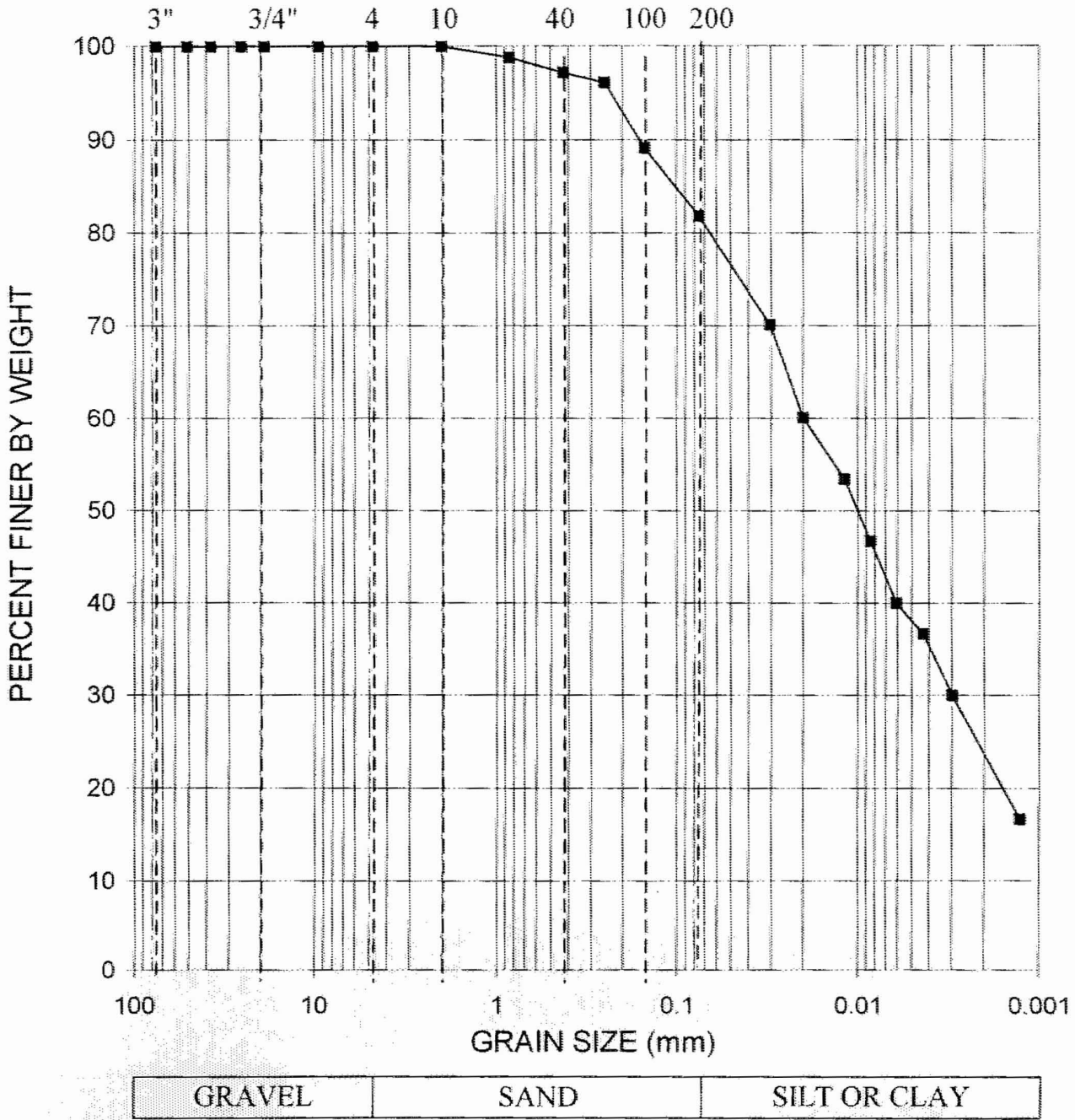
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U.S. AIR FORCE

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.	L.L.	PI	
B-318/C-3A	43.5-45.0, 48.5-50.0	FAT CLAY, with sand, dark green	CH			

# Mathematics

1.  $2x + 3 = 7$   
 $2x = 7 - 3$   
 $2x = 4$   
 $x = \frac{4}{2}$   
 $x = 2$

2.  $5y - 2 = 8$   
 $5y = 8 + 2$   
 $5y = 10$   
 $y = \frac{10}{5}$   
 $y = 2$

3.  $3z + 1 = 4$   
 $3z = 4 - 1$   
 $3z = 3$   
 $z = \frac{3}{3}$   
 $z = 1$

4.  $4a - 5 = 15$   
 $4a = 15 + 5$   
 $4a = 20$   
 $a = \frac{20}{4}$   
 $a = 5$

5.  $6b + 2 = 14$   
 $6b = 14 - 2$   
 $6b = 12$   
 $b = \frac{12}{6}$   
 $b = 2$

6.  $7c - 3 = 18$   
 $7c = 18 + 3$   
 $7c = 21$   
 $c = \frac{21}{7}$   
 $c = 3$

7.  $8d + 4 = 20$   
 $8d = 20 - 4$   
 $8d = 16$   
 $d = \frac{16}{8}$   
 $d = 2$

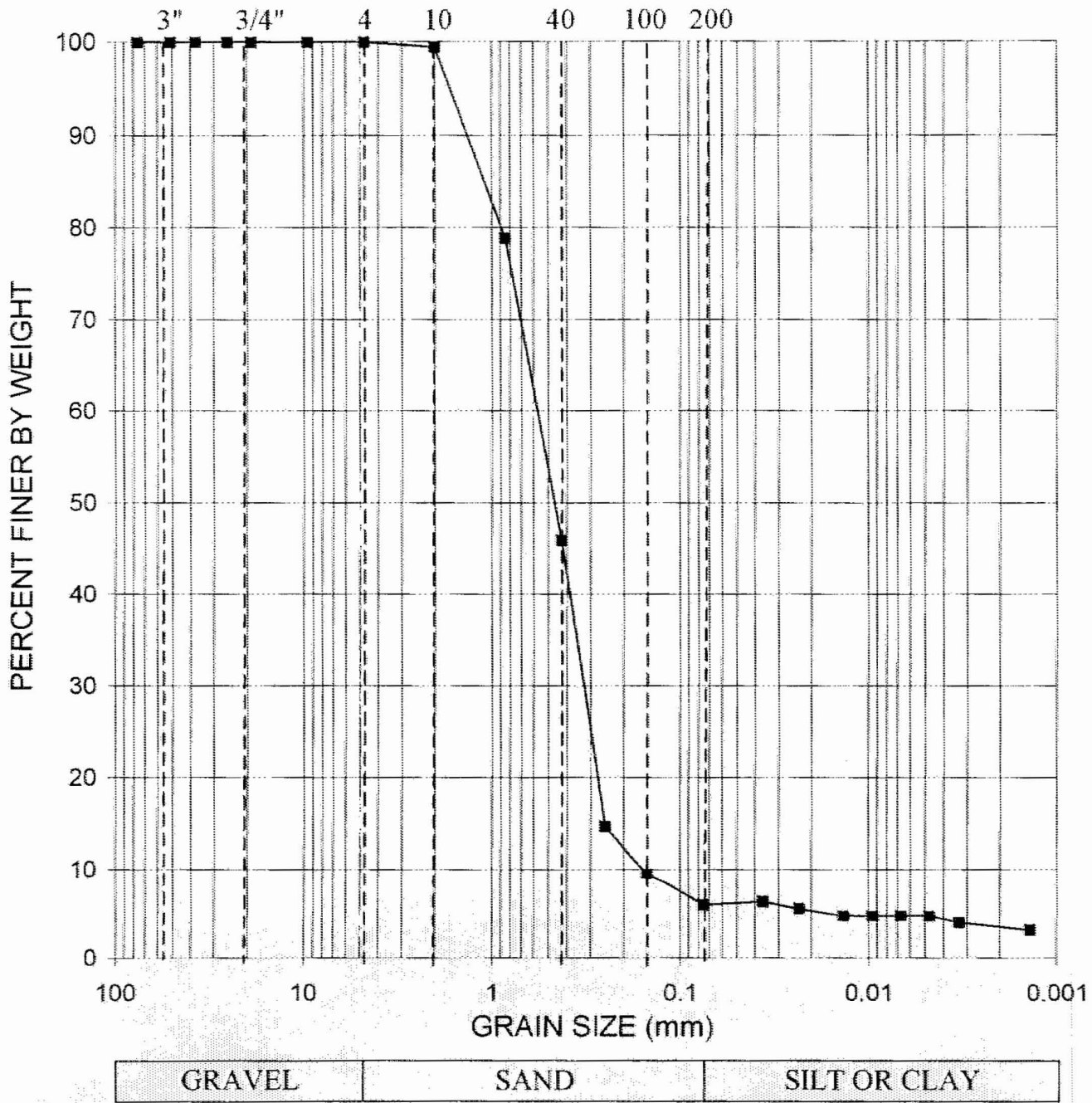
8.  $9e - 6 = 27$   
 $9e = 27 + 6$   
 $9e = 33$   
 $e = \frac{33}{9}$   
 $e = \frac{11}{3}$

9.  $10f + 1 = 31$   
 $10f = 31 - 1$   
 $10f = 30$   
 $f = \frac{30}{10}$   
 $f = 3$

10.  $11g - 8 = 44$   
 $11g = 44 + 8$   
 $11g = 52$   
 $g = \frac{52}{11}$

Equation	Solution
$2x + 3 = 7$	$x = 2$
$5y - 2 = 8$	$y = 2$
$3z + 1 = 4$	$z = 1$
$4a - 5 = 15$	$a = 5$
$6b + 2 = 14$	$b = 2$
$7c - 3 = 18$	$c = 3$
$8d + 4 = 20$	$d = 2$
$9e - 6 = 27$	$e = \frac{11}{3}$
$10f + 1 = 31$	$f = 3$
$11g - 8 = 44$	$g = \frac{52}{11}$

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-323, B-324/ C-4A	33.5-35.0, 32.5-34.0	Poorly Graded SAND, with silt, orange- brown	SP-SM				

# 1980-1981 (Annual) Report



1980-1981 (Annual) Report

1980-1981 (Annual) Report

1980-1981 (Annual) Report

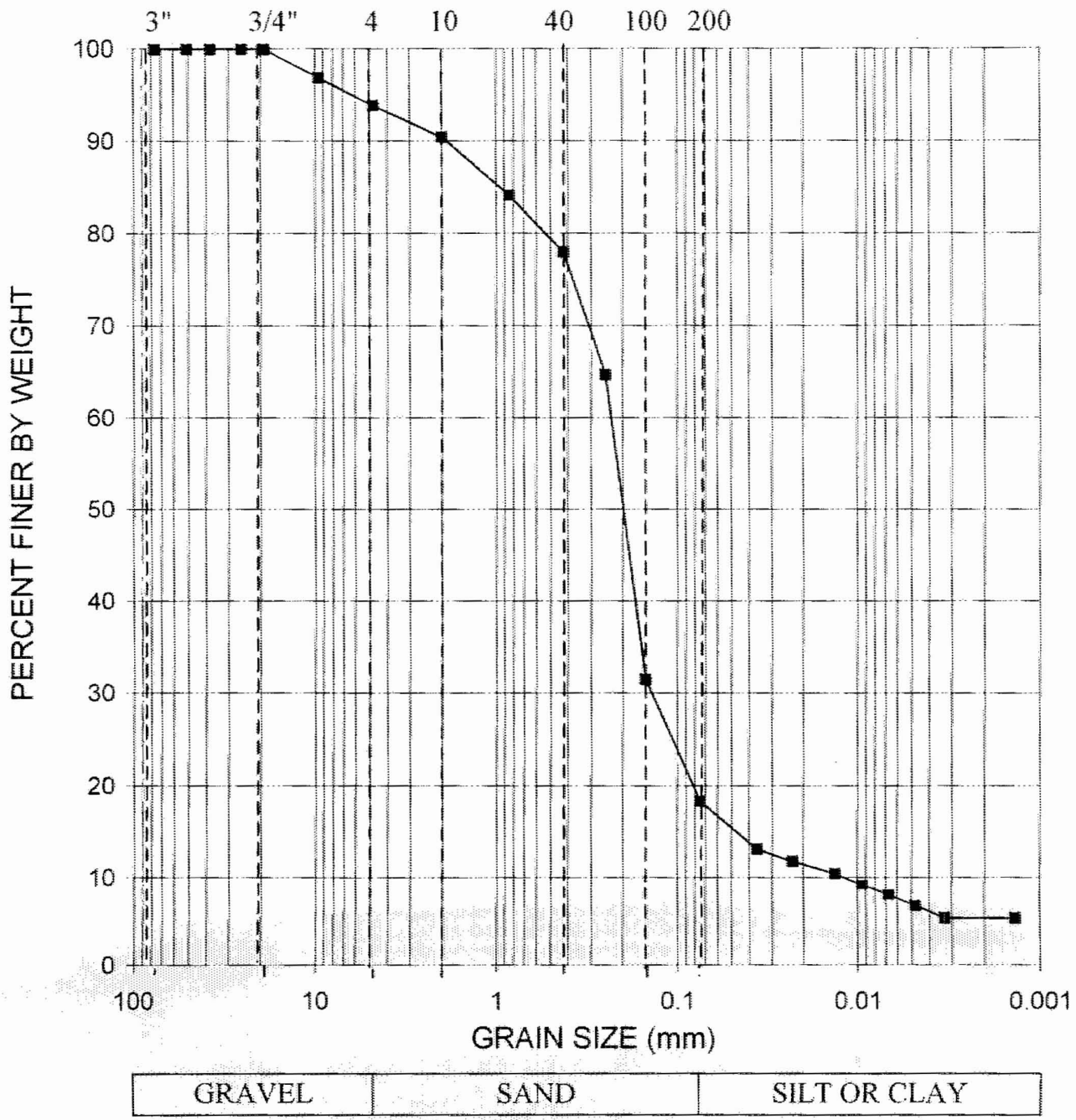
1980-1981 (Annual) Report

1980-1981 (Annual) Report

1980-1981 (Annual) Report

1980-1981 (Annual) Report

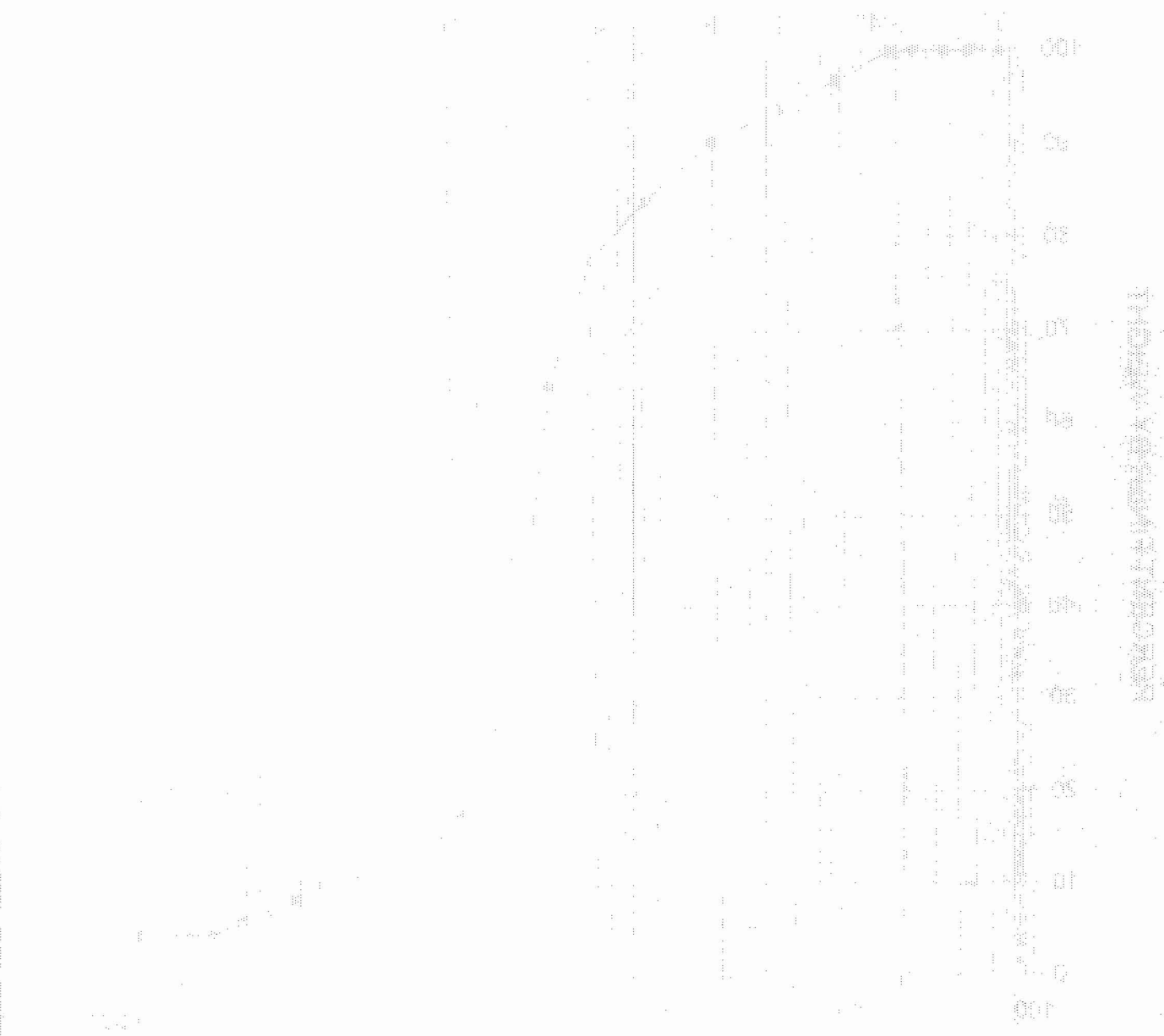
U.S. Standard Sieve Nos.



**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-335/ C-5A	63.5-65.0, 68.5-70.0	Silty SAND, trace shells, dark gray	SM			

! smiP hshpa1? .6 0



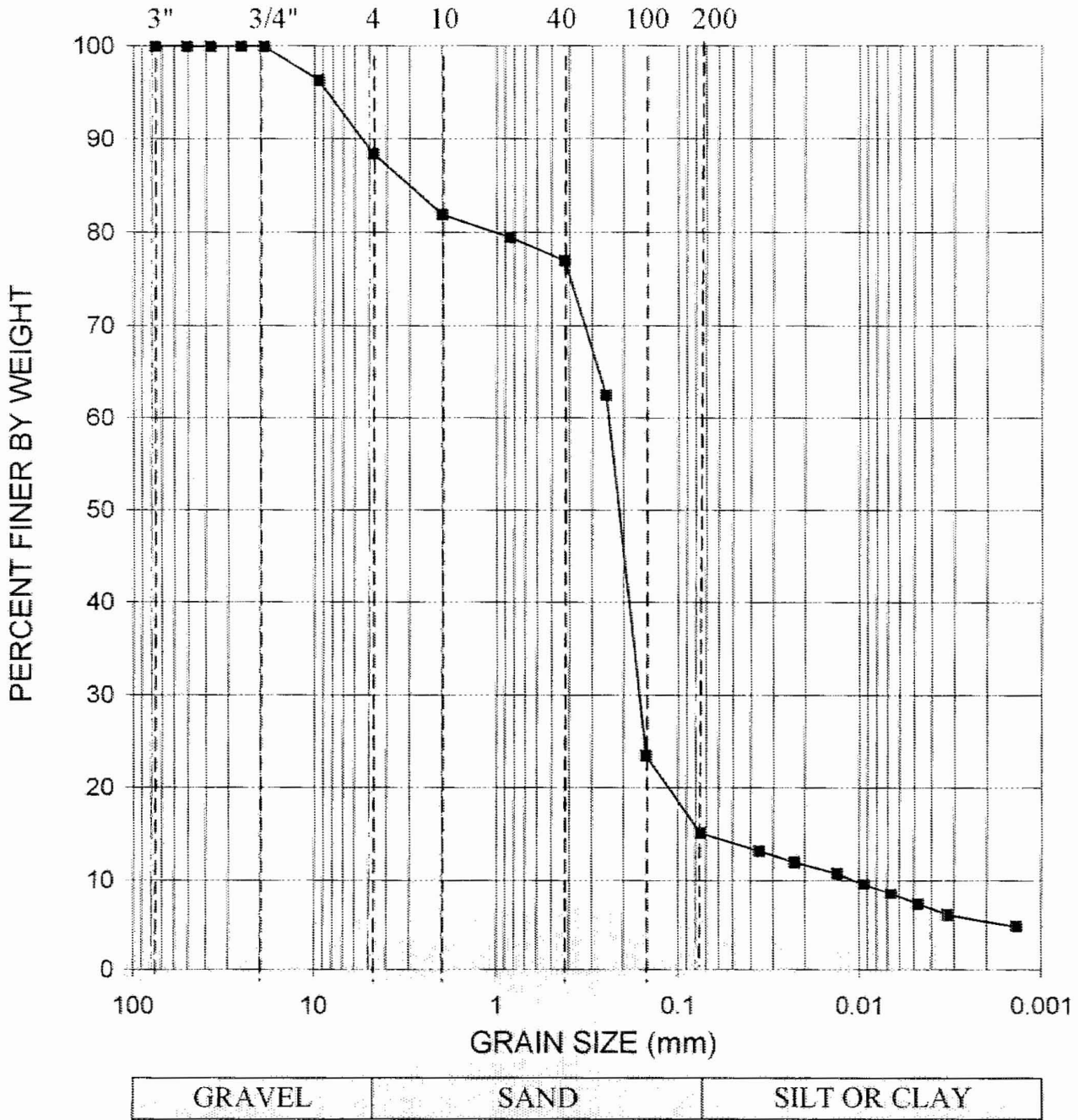
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BECHTEL INTERNATIONAL COMPANY  
 1400 17th Street, Suite 200  
 San Francisco, CA 94103  
 (415) 764-2000

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-401/C-6A	63.5-65.0, 73.5-75.0	Silty SAND, trace shells, dark gray	SM				



Figure 2: [Illegible Title]



Percentage of [Illegible]

[Illegible text]

[Illegible text]

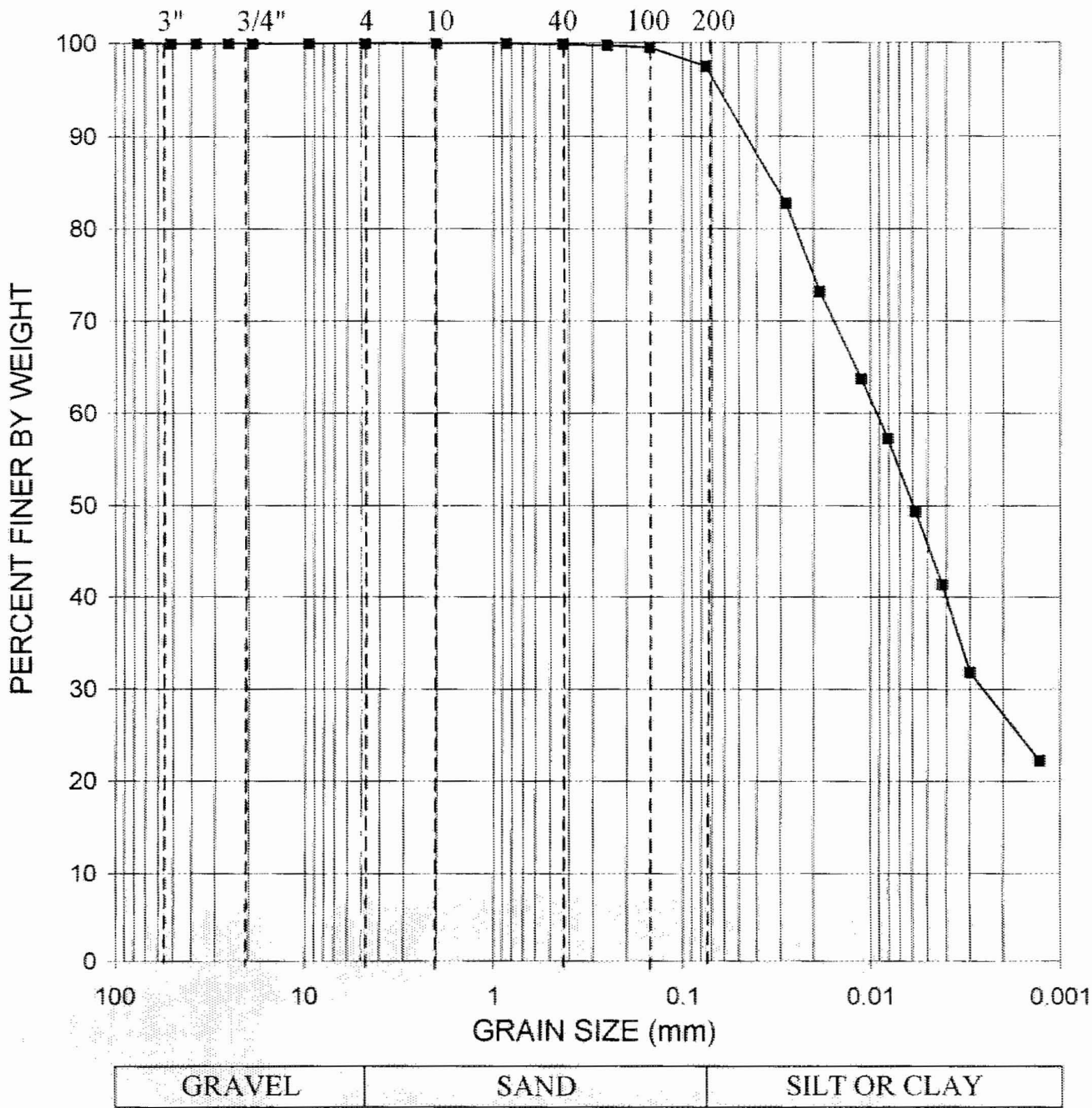
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[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]

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				

MEMORANDUM FOR THE RECORD

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SECRETARY OF THE ARMY

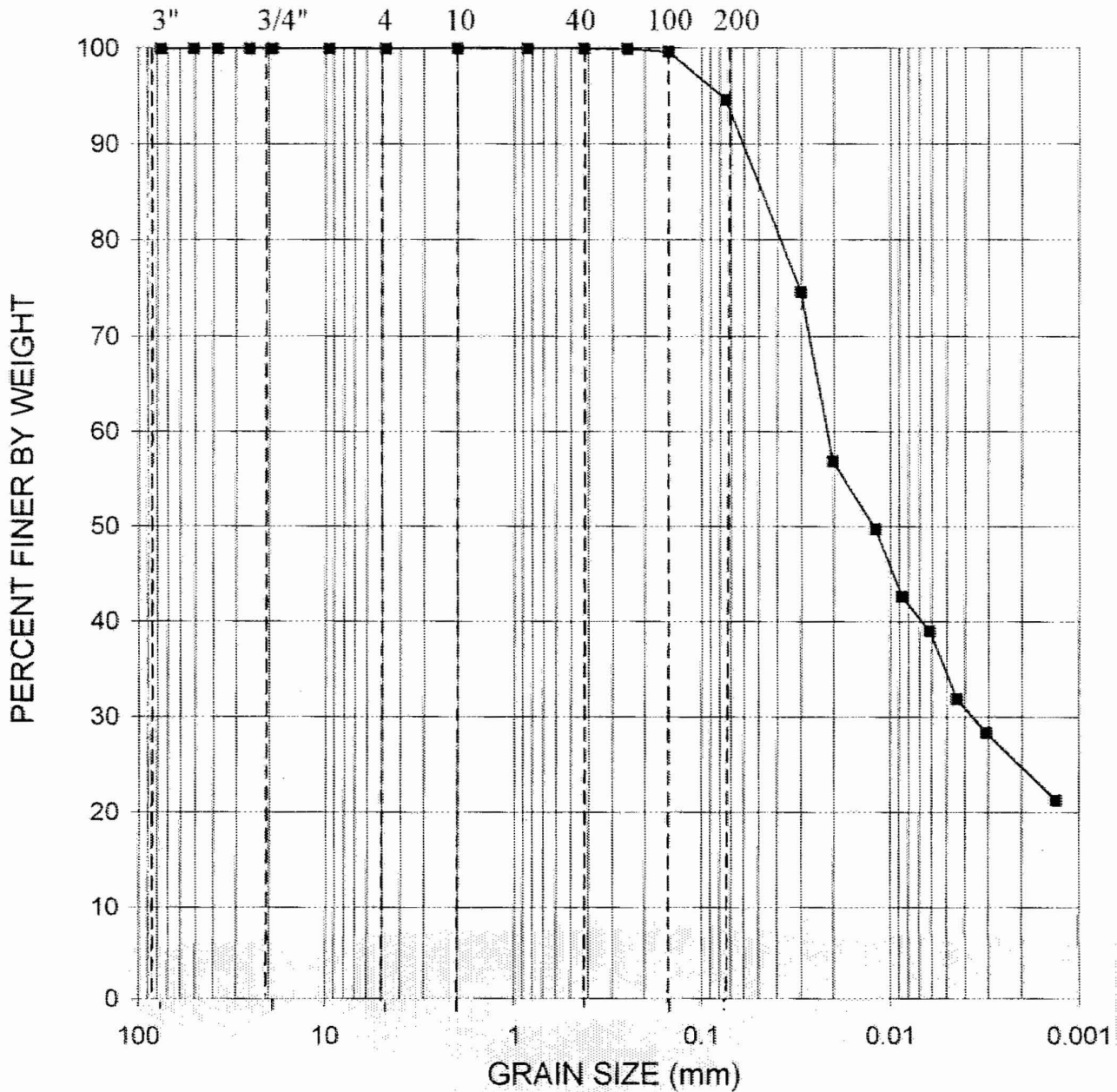
MEMORANDUM FOR THE RECORD

SECRETARY OF THE ARMY

MEMORANDUM FOR THE RECORD

SECRETARY OF THE ARMY

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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**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				

1994-1995

1994-1995



(mm, 1000 ft)

1994-1995

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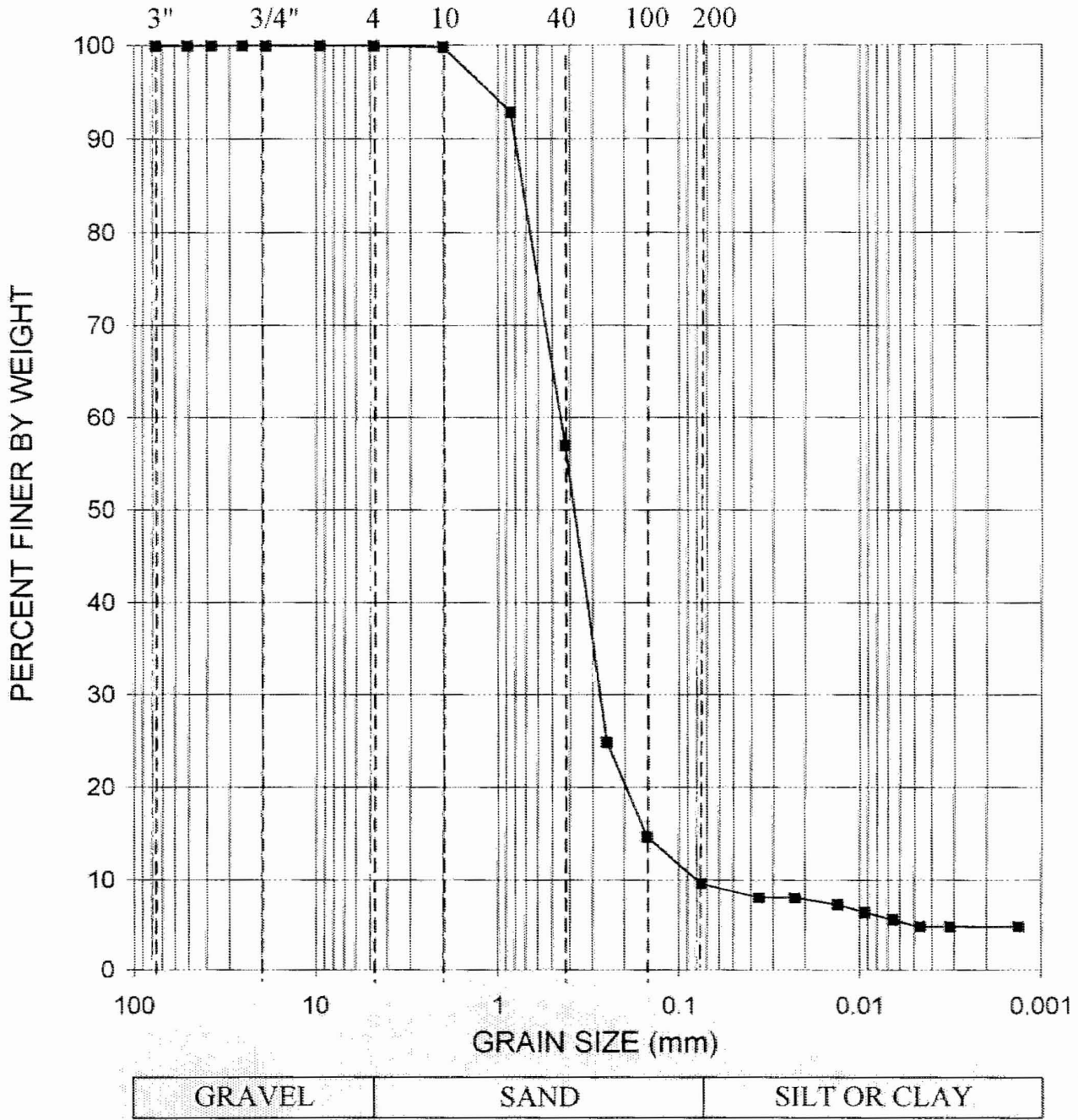
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U.S. Standard Sieve Nos.



GRAVEL                      SAND                      SILT OR CLAY

**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				

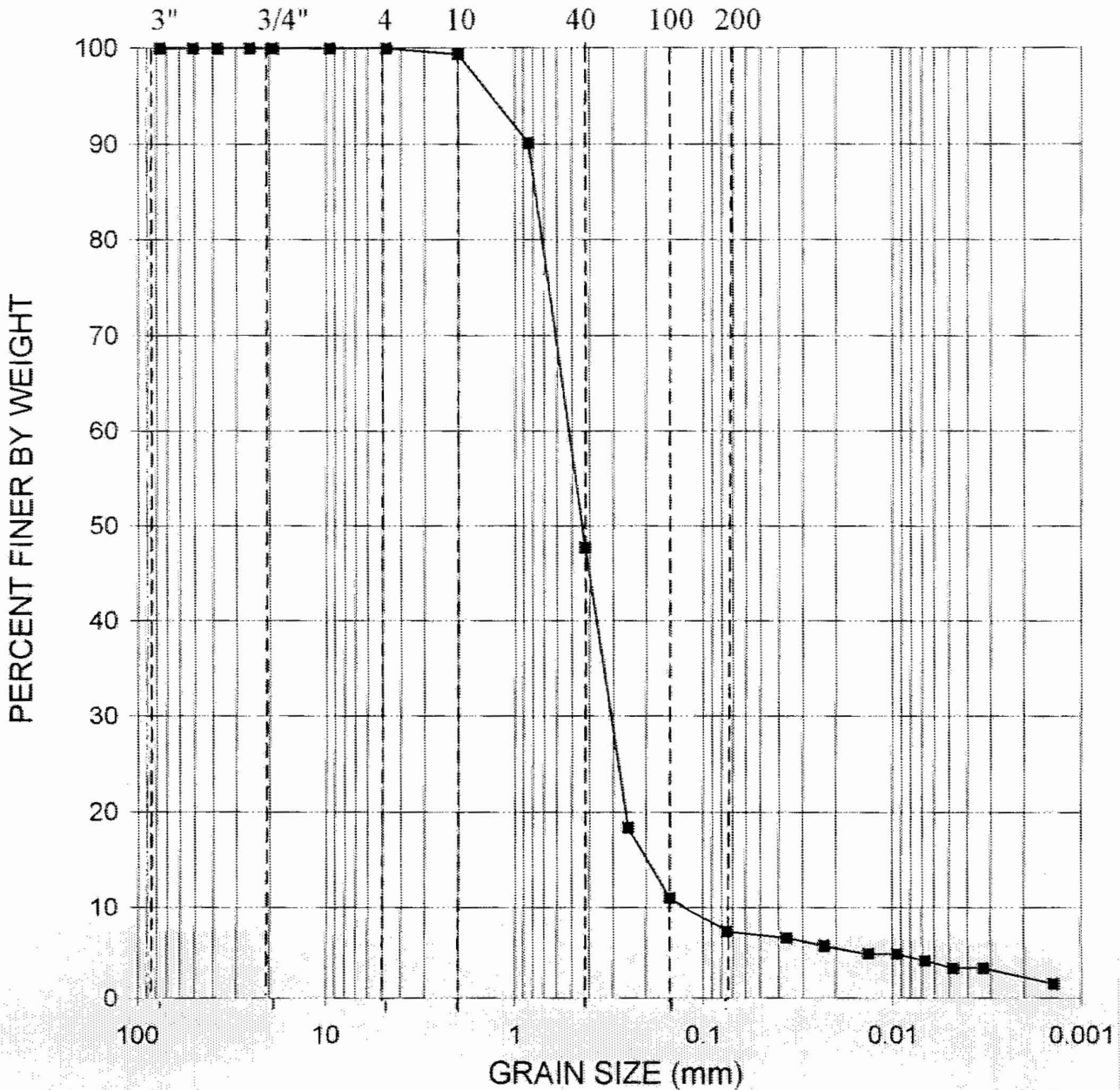
SECRET/NOFORN

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U.S. Standard Sieve Nos.



GRAVEL                      SAND                      SILT OR CLAY

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-428, B-429/ C-10A	38.5-40.0, 38.5-40.0	Poorly Graded SAND, with silt, orange- brown	SP-SM		





Figure 1.2

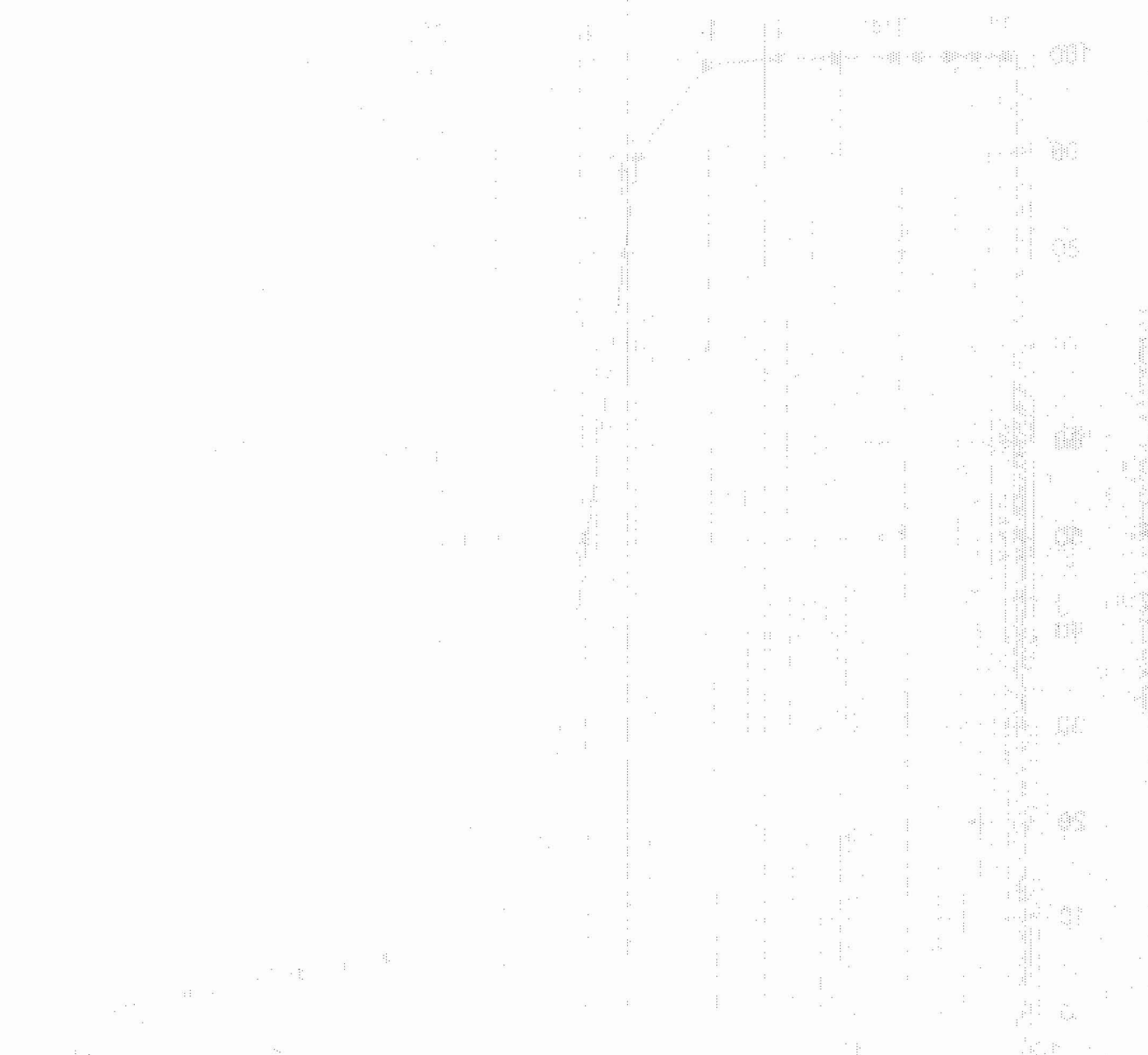
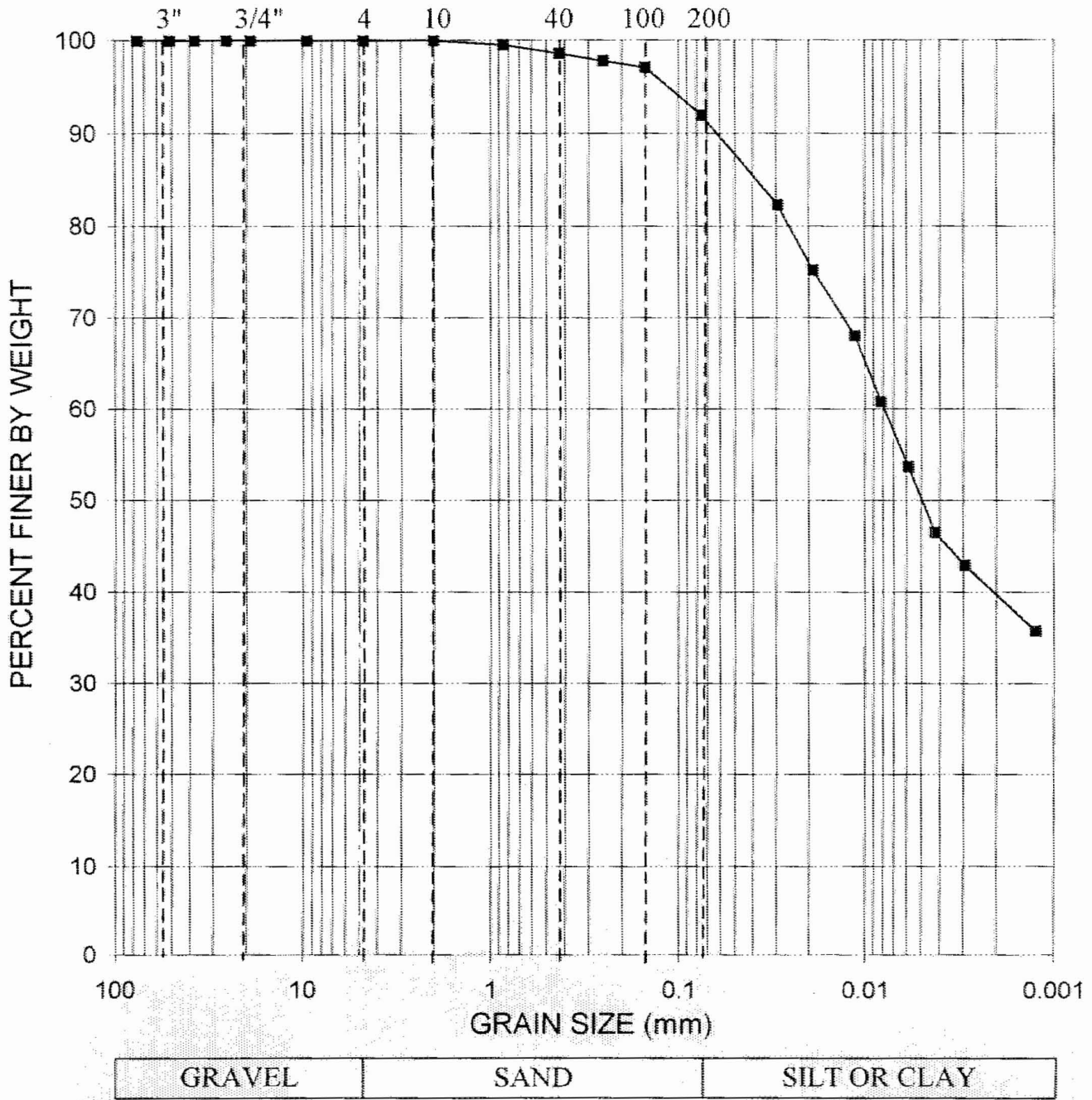


Figure 1.2 shows the relationship between the variables X and Y. The data points are plotted on a grid, and a line is drawn through them. The line starts at approximately (0, 10) and rises to (50, 50). From x=50, the line continues horizontally at y=100 until x=100.


The following table summarizes the data points shown in Figure 1.2:

X	Y
0	10
10	15
20	20
30	30
40	40
50	50
60	100
70	100
80	100
90	100
100	100

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-428/C-11A	63.0-65.0	FAT CLAY, dark gray			CH/OH			

3. 3. 3. 3. 3.



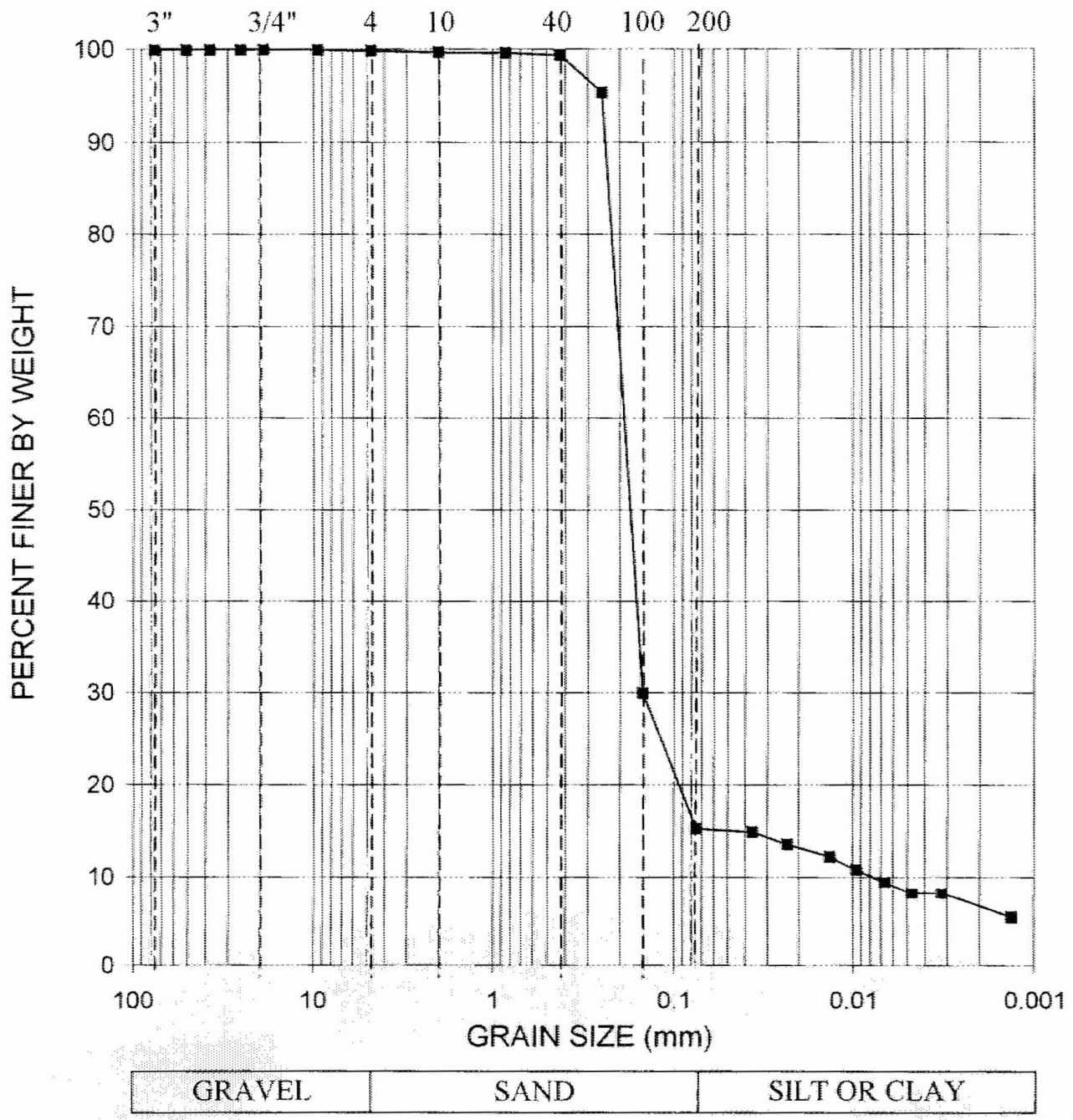
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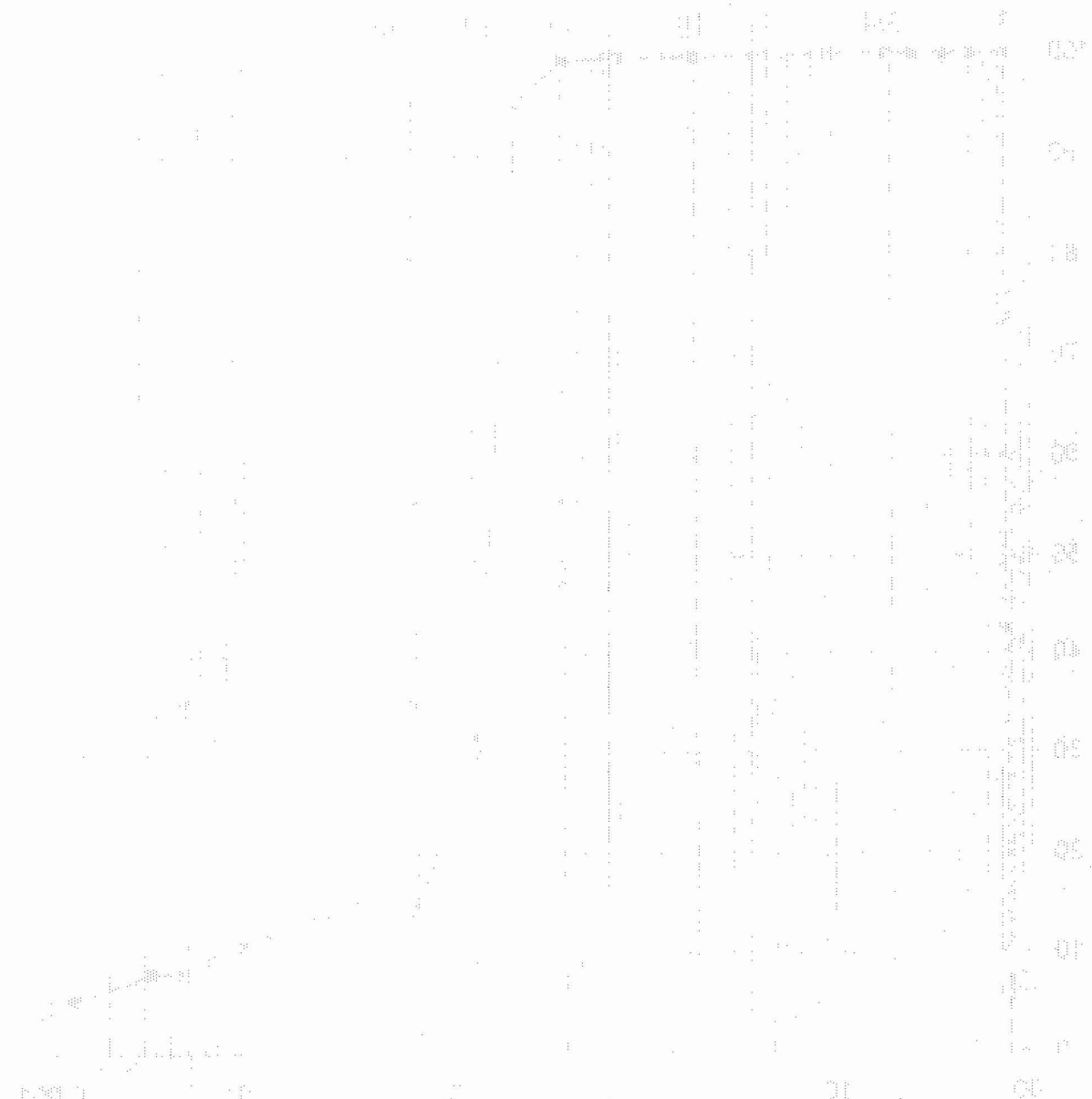
U.S. Standard Sieve Nos.



**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-705/ C-12A	43.5-45.0, 48.5-50.0	Silty SAND, contains shells, dark gray	SM				

PROBATION DEPENDANCE



PROBATION DEPENDANCE

PROBATION DEPENDANCE

PROBATION DEPENDANCE

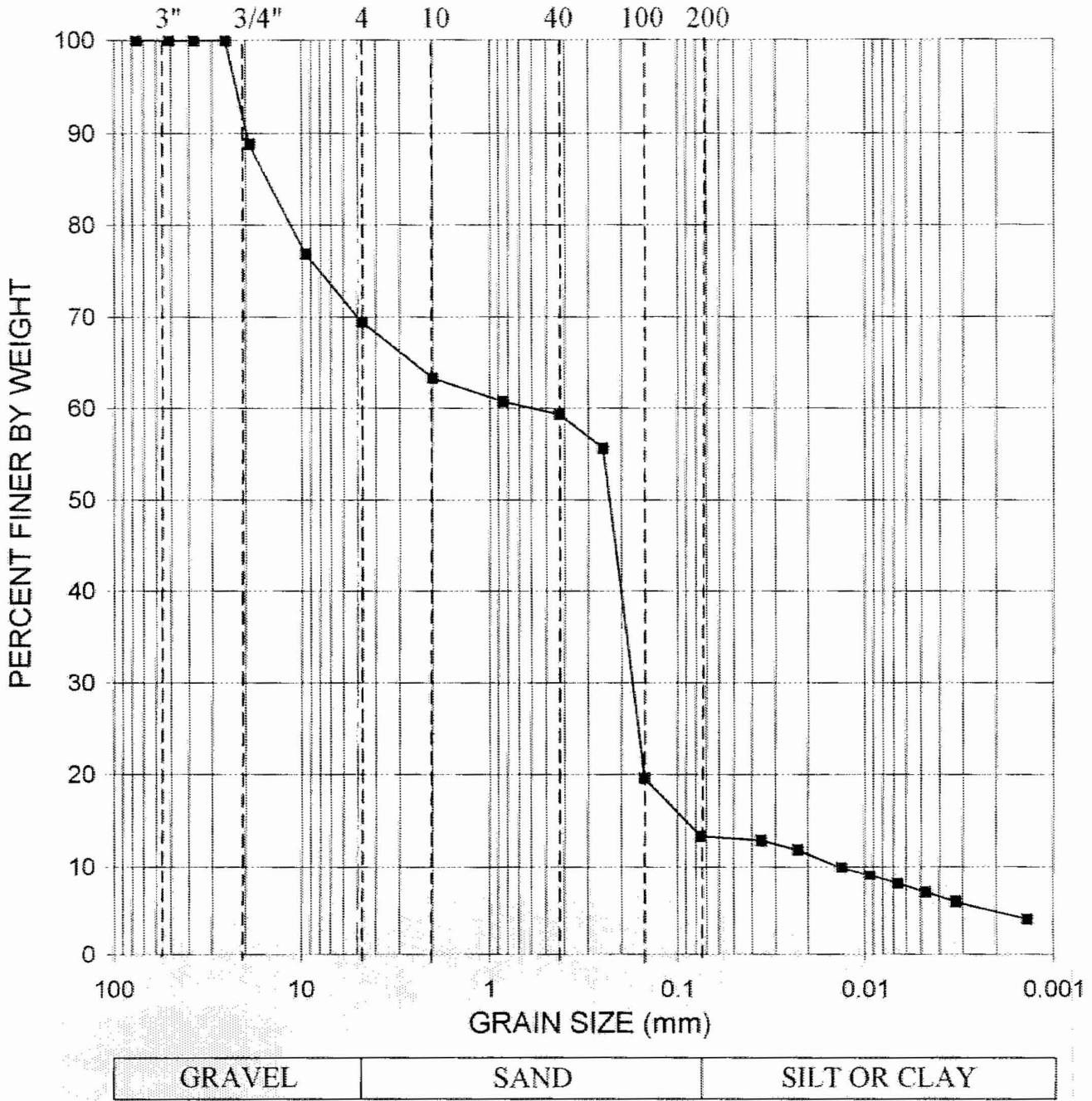
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U.S. Standard Sieve Nos.



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-708/ C-13A	23.5-25.0, 28.5-30.0	Silty SAND, with shells, dark gray	SM				

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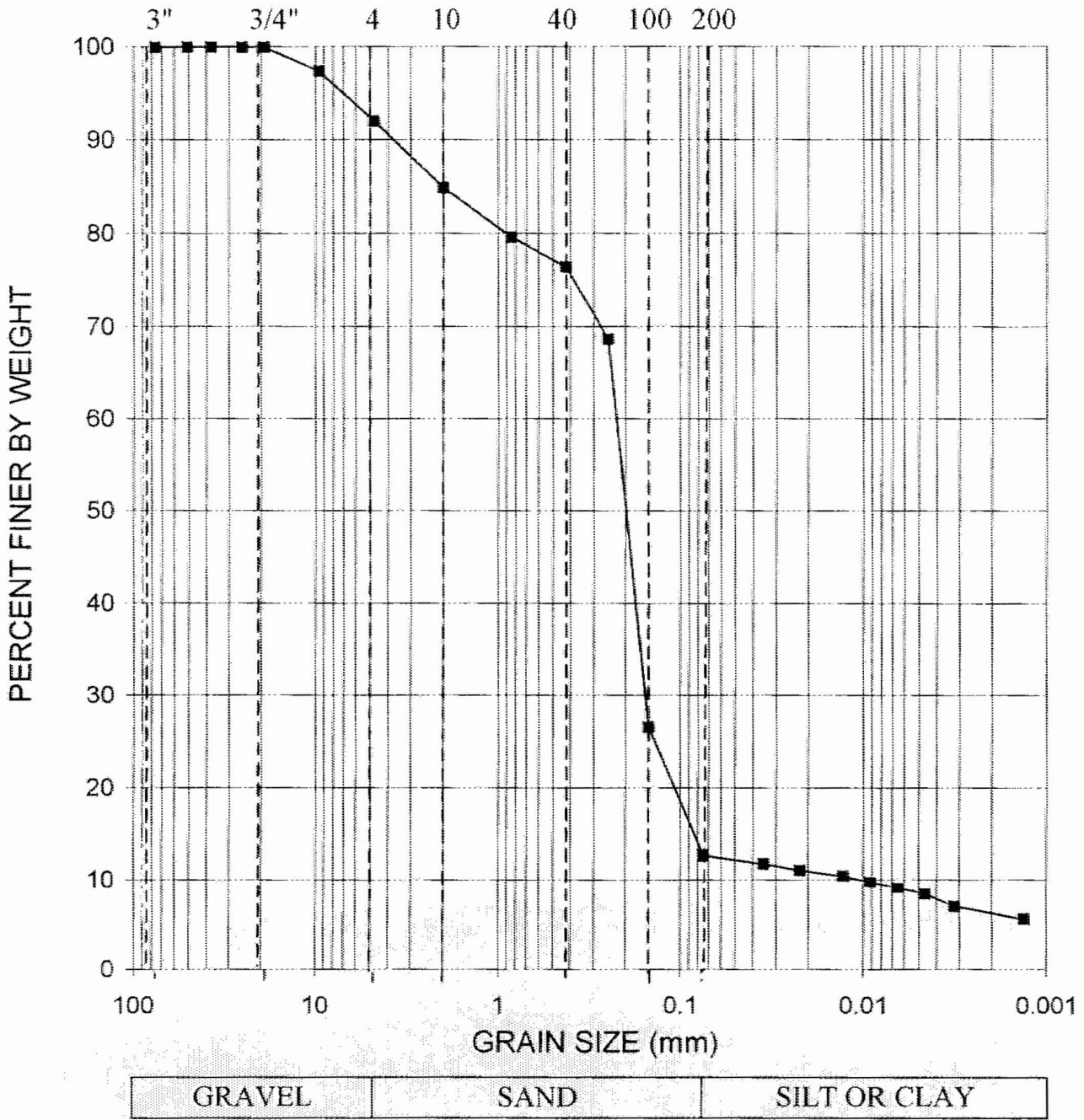
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U.S. Standard Sieve Nos.



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				



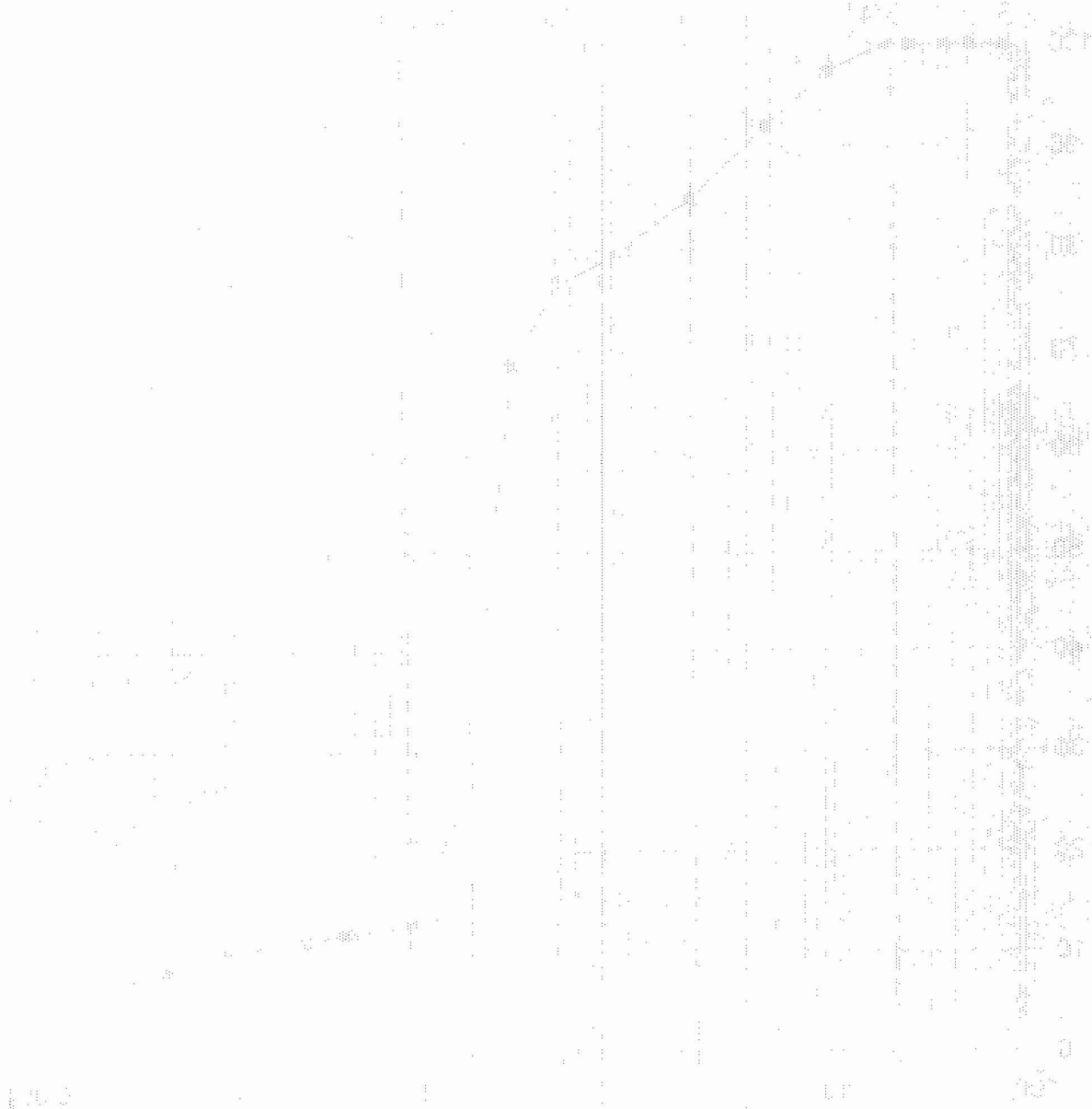


Figure 1: A graph showing a curve that rises from the bottom left and levels off towards the top right.

Category	Value	Percentage
Category A	100	100%
Category B	50	50%
Category C	25	25%
Category D	12.5	12.5%
Category E	6.25	6.25%

U.S. Standard Form 43

100

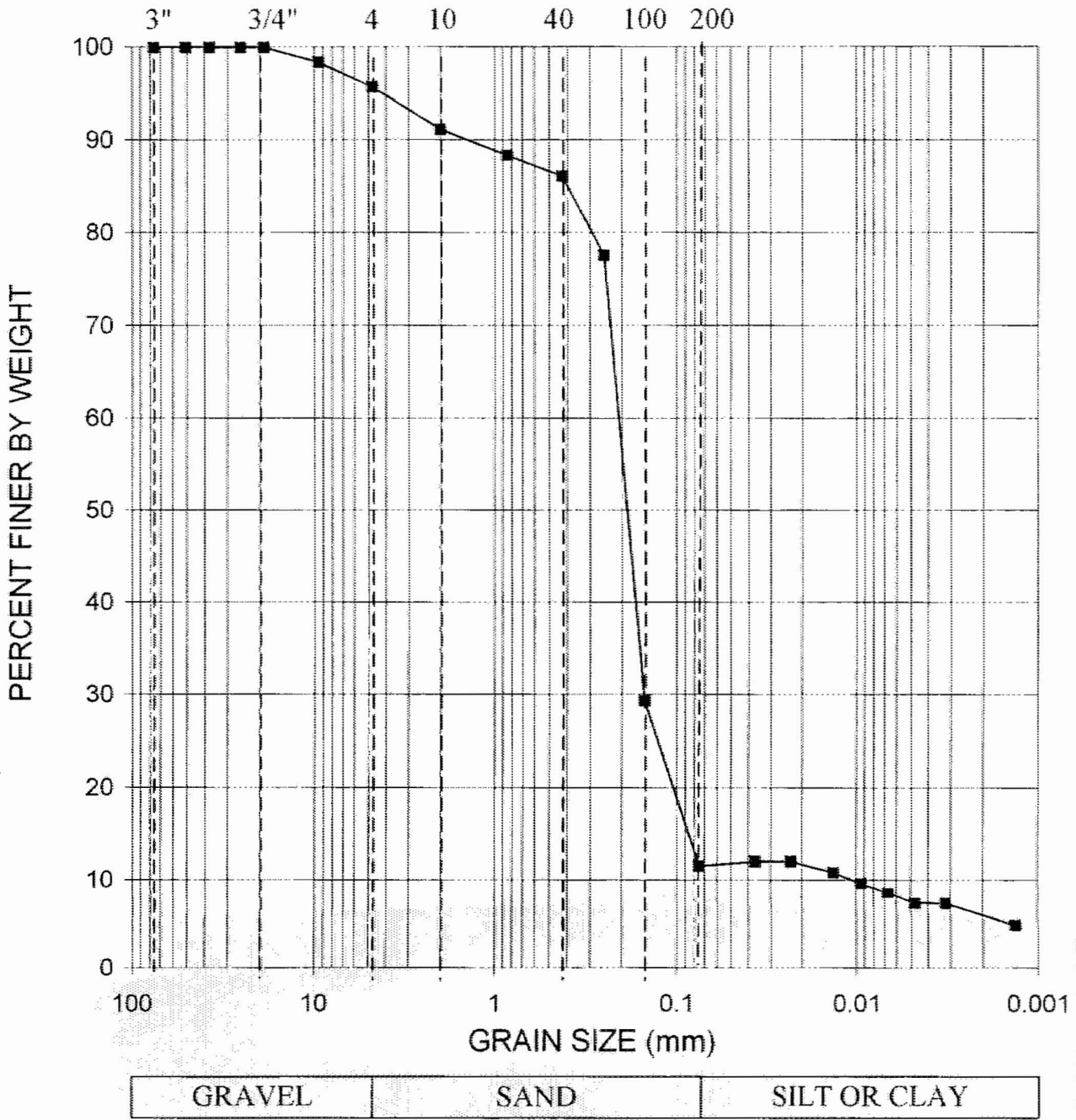
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6.25

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-725/ C-15A	48.5-50.0, 53.5-55.0	Poorly Graded SAND, with silt, trace shells, dark gray	SP-SM			